



March 15, 2012

Mr. Chuck Berry
On-Scene Coordinator
U.S. Environmental Protection Agency, Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street SW
Atlanta, Georgia 30303

Subject: **Palm Beach Gasification Plant**
Removal Investigation Letter Report, Rev. 1
West Palm Beach, Florida
Contract No. EP-W-05-053
Technical Direction Document (TDD) No.: TNA-05-003-0114

Dear Mr. Berry:

The Oneida Total Integrated Enterprises (OTIE), Superfund Technical Assessment and Response Team (START), has prepared this Letter Report in accordance with TDD No. TNA-05-003-0114. The Florida Department of Environmental Protection (FDEP) requested assistance from the United States Environmental Protection Agency (EPA) to investigate possible soil vapor contamination in the neighborhood surrounding the former Palm Beach Gasification Plant (the site) located in the 800 block of 2nd Street, West Palm Beach, Palm Beach County, Florida. START was tasked to provide support to the EPA on an EPA Region 4 Removal Investigation involving soil vapor sampling within the study area during the weeks of January 24, 2011 and November 15, 2011. For the purposes of this report, the study area is defined as the residential properties located near the site.

The soil vapor sampling strategy was designed to collect data to be used by Human Health Risk Assessors to determine if there is a potential for the air emissions emanating from the contaminated groundwater pose a health hazard for residents living in the area. Sub-slab soil gas and crawl space air samples were collected for volatile organic compound analysis (VOC) and naphthalene in accordance with EPA Method TO-15.

SITE DESCRIPTION

The site (parcel ID: 373414445056) is comprised of approximately 1.98 acres located in a mixed residential and commercial area. The property at 804 2nd Street currently operating as a propane gas refueling station for Florida Public Utility Company (FPUC) fleet vehicles but was once part of the manufactured gas plant (MGP) owned by the FPUC. The FPUC is located at latitude 26.715325° North and longitude 80.058697° West.

The study area where soil vapor sampling was conducted is comprised of residential properties located in the 600 and 800 blocks of 2nd Street, West Palm Beach, Florida (Appendix A, Figure 1); north and east of the site. The residential buildings in this area are mostly single floor structures with slab or crawl space foundations. Soil gas samples were collected from 23 locations where permission was granted by the property owners to access the residential property.

Less than a quarter mile to the west is Clear Lake and to the east is an inlet bay with tidal influence. Groundwater flow is generally to the east/northeast and is estimated to be approximately 10 feet below ground surface (bgs). The surface elevation of the site and the study area is estimated to be 25 feet above mean sea level (amsl).

Reported in the 2010 City of West Palm Beach Water Quality Report, the City of West Palm Beach gets its water from Grassy Waters Preserve, Lake Mangonia, and Clear Lake. In past years, the City has been able to supplement its supply with water from Lake Okeechobee.

The National Resource Conservation Service and United States Geological Survey (USGS) lists the land as Ur – Urban Land, defined as an area that is 60% to 75% covered with streets, buildings, large parking lots, shopping centers, industrial parks, airports, and related facilities. Other areas, mostly lawns, parks, vacant lots, and playgrounds, are generally altered to such an extent that the former soils cannot be easily recognized and are in tracts too small to be mapped separately. The soils are predominately level, wet, and sandy and have a loamy subsoil or sandy layers that are weakly cemented with organic matter. In places, the soils are underlain by limestone.

Palm Beach County's surface waters are considered its most important physical assets. These waters play an important role in the economic structure of the survey area. Other than in the lower reaches of the Loxahatchee River, this area has no flowing streams. It does, however, have an abundance of surface water that includes more than one-third of Lake Okeechobee and Lakes Mangonia, Clear, Osborne, and Ida.

SITE HISTORY AND OPERATIONS

The site operated as a manufactured gas plant (MGP) from 1916 to 1959. By-products of the manufactured gas process including VOC and naphthalene have impacted the soil and groundwater at the site. The Florida Department of Environmental Protection (FDEP) reports that a former gasification holder was removed.

ASSESSMENT ACTIVITIES

During the weeks of January 24, 2011 and November 15, 2011, START assisted EPA Emergency Response and Removal Branch (ERRB), Environmental Response Team (ERT), and the Science and Ecosystem Support Branch (SESD) to conduct soil vapor sampling within the study area. Figures 2 through 4 in Appendix A illustrate the sampling locations. Logbook notes and photographic logs documenting field investigation activities are provided in Appendix C and D, respectively.

January 2011 Sampling Event

A total of 24 soil gas, three crawl space, and four ambient air samples were collected from 18 residential properties during the January 2011 sampling event. Twenty-two (22) soil gas and two ambient air samples were collected using 1-liter (L) teflar® bags and analyzed on-site by ERT for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using a gas chromatograph/triple axis mass spectrometer (GC/MS). Two sub-slab soil gas, three crawl space, and two additional ambient air samples were collected using 6-L Summa® canisters over a 24-hour period and submitted to Columbia Analytical Services (CAS) in Simi Valley, California for BTEX and naphthalene analysis in accordance with EPA Method TO-15. Sampling locations are presented in Figure 2 provided in Appendix A. During this sampling event, no unusual weather patterns occurred, such as high wind storms, which may have altered the results.

November 2011 Sampling Event

After analyzing the data from the January 2011 event, EPA and FDEP determined that additional sampling near the FPUC property was warranted. A total of seven soil gas, two crawl space, and two ambient air samples were collected from eight residential properties during the November 2011 sampling event. Seven sub-slab soil gas samples were collected using 6-L Summa® canisters over a 60-minute period. Two crawl space and two ambient air samples were collected using 6-L Summa® canisters over a 24-hour period. Samples were submitted to SESD Analytical Support Branch (ASB) Laboratory and were analyzed for VOC using method TO-15 from the EPA Compendium of Methods to the Determination of Toxic Organic Compounds in Ambient Air.

Sampling Methodologies

All samples were collected and handled in accordance with the EPA Region 4 SESD Field Branches Quality System and Technical Procedures and the EPA approved site-specific Quality Assurance Project Plans (QAPP) for the site. The following summarizes the sampling methodologies employed during the two sampling events conducted within the study area.

Sampling using Tedlar® Bags

Soil gas sampling using Tedlar® bags was performed using a slam bar, the insertion of a hollow, 4-foot, stainless steel rod, and the connection of polytetrafluoroethylene tubing from the rod through the vacuum box and into a one-liter Tedlar® bag.

Sub-Slab Sampling

Sub-slab sampling was conducted after the installation of stainless steel sampling ports through the concrete-slab foundation. An electric hammer drill was used to bore a hole through the floor. A ¼-inch Teflon® sampling tube fitted with a stainless steel screen barrier was inserted into the hole below the floor slab. The sampling tube at the surface of the floor slab was then sealed with a VOC free media. The tubing at the surface was attached to a TVA-1000B equipped with a flame ionization detector (FID)/photo-ionization detector (PID) to purge the sampling tube of intrusive ambient air with a low flow rate of less than 200 milliliters per minute (200 mL/min). Once the sampling tube had been purged using the TVA-1000B, it was disconnected from the sampling tube. The sampling tube was then connected to a flow device attached to the 6-L Summa® stainless steel sampling canister. Soil gas samples collected in January 2011 were collected over a 24-hour period while the ones collected in November 2011 were collected over a 60-minute period. After the sampling was finished, the floor slab was sealed with concrete.

Split samples collected during the November 2011 event were sampled through a common ¼- inch sampling tube. This was accomplished by installing a “tee” at the free end of the sample tube and splitting the flow of soil gas through two separate limiting orifices and into two separate evacuated Summa® canisters.

Crawl Space Sampling

Due to limited access to crawl space air sampling locations, manual placement of the sampling canisters was not possible. Twenty foot length of 1/8- inch stainless steel tubing fitted with a stainless steel screen barrier at the inlet was used to collect these samples. The stainless steel tubing was attached to a 20 foot piece of metal conduit. This sampling apparatus was slid thru a small foundation opening and placed as close to the center of the house as possible. The sampling canisters remained on the outside of the structure. Air samples collected from crawl spaces were collected over a 24-period using Summa® canisters.

Split samples collected during the November 2011 event were sampled using a “tee” at the exit of the stainless steel tubing.

Ambient Air Sampling

Ambient air samples were collected using Summa® canisters in order to assess background concentrations of VOCs that may be infiltrating crawl spaces. Ambient air sampling was performed over a 24-hour periods.

SAMPLE RESULTS

Analytical results for soil gas, crawl space, and ambient air samples are summarized in Tables 2 through 4 provided in Appendix B. Environmental data were first compared to the applicable Regional Screening Levels (RSL). RSLs are conservative, long-term risk-based screening values developed by EPA to help identify contaminants of potential concern. If concentrations exceed an RSL, it does not mean that a clean-up is necessary or that health risks are imminent. Rather, it highlights potential contaminants that should be investigated further.

If a contaminant exceeded an RSL, it was then compared to its Removal Action Level (RAL). RALs are risked-based screening values developed by EPA to determine whether sample concentrations are sufficiently elevated that they may warrant a removal action. Exceedance of an RAL by itself does not imply that adverse health effects will occur. A complete copy of the laboratory analytical results is provided in Appendix E.

January 2011 Sampling Event

Of the 20 soil gas samples collected using Tedlar® bags and analyzed on-site using a GC/MS, 13 sampling locations (SG-1, SG- 2, SG-4, SG-8, SG-9, SG-11, SG-12, SG-13, SG-15, SG-16, SG-17, SG-18, and SG-19) showed detectable levels of VOCs. Specifically, only benzene was detected at concentrations in exceedance of the RSL (0.31 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]) in nine samples. Benzene concentrations ranged from 1.88 to 14.32 $\mu\text{g}/\text{m}^3$; however, none of the benzene concentrations exceeded the RAL (31.2 $\mu\text{g}/\text{m}^3$). Toluene was detected in 12 out of 20 tedlar samples, with detections ranging from non-detect to 14.2 $\mu\text{g}/\text{m}^3$; however, none of the samples were above the RSL (5,200 $\mu\text{g}/\text{m}^3$) or the RAL (15,600 $\mu\text{g}/\text{m}^3$) for toluene. Ethylbenzene, m, p-xylenes, and o-xylene were not detected in any of the soil gas tedlar® sample locations.

The two ambient air samples collected using Tedlar® bags did not indicate concentrations of BTEX above the detection levels.

BTEX compounds and naphthalene were detected in the soil gas samples collected from the sub-slabs and crawl spaces of residential properties. Benzene and naphthalene were detected at concentrations exceeding the RSLs in several samples but only one sample, Summa-1, had a naphthalene concentration (8.1 $\mu\text{g}/\text{m}^3$) above the RAL (7.16 $\mu\text{g}/\text{m}^3$). The two ambient air Summa® canister samples also showed levels of benzene and naphthalene above the RSLs but no detections were noted above the RALs.

November 2011 Sampling Event

The soil gas analytical results, including two ambient air control samples WPG1 and WPG2 contain numerous low level concentrations of VOCs. Samples from three sampling stations, WPG6, WPG7 and WPG9, contained detectable concentrations of naphthalene. Naphthalene concentrations are highlighted in yellow throughout the summary tables. The soil gas concentrations of naphthalene found in the aforementioned sample locations are summarized below.

The highest concentration of naphthalene ($33 \mu\text{g}/\text{m}^3$) was recorded at sample location WPG6. Sample WPG6SGNOV11 was collected under the floor slab located at 809 2nd Street, Apartment #1. Sample station WPG7 is located at 815 2nd Street, Apartment #1. The soil gas sample WPG7SGNOV11, was collected under the floor slab, and had a naphthalene concentration of $3.0 \mu\text{g}/\text{m}^3$. Sample station WPG9 is located at 817 2nd Street, Apartment #4. The soil gas sample WPG9SGNOV11 was collected under the floor slab and had a naphthalene concentration of $6.4 \mu\text{g}/\text{m}^3$; this was the original location where the RAL was exceeded and, although elevated, it was now found to be below the RAL.

SUMMARY

At the request of FDEP, EPA collected soil vapor and crawl space air samples from residences and property located near the former FPUC MGP in West Palm Beach, Florida in January 2011. A total of 22 soil gas, three crawl space, and four ambient samples were collected. Although several samples showed detectable levels of several contaminants over the RSL, only one detection of naphthalene was over the RAL.

EPA and FDEP determined additional sampling was warranted. Returning in November 2011, nine locations were investigated, including the original location that exceeded the RAL for naphthalene. Analysis of these samples showed another location which exceeded the RAL, although soil vapor in the location which originally exceeded the RAL had fallen below this limit.

EPA is turning over the results of the investigation to FDEP to determine if further action is warranted by any party.

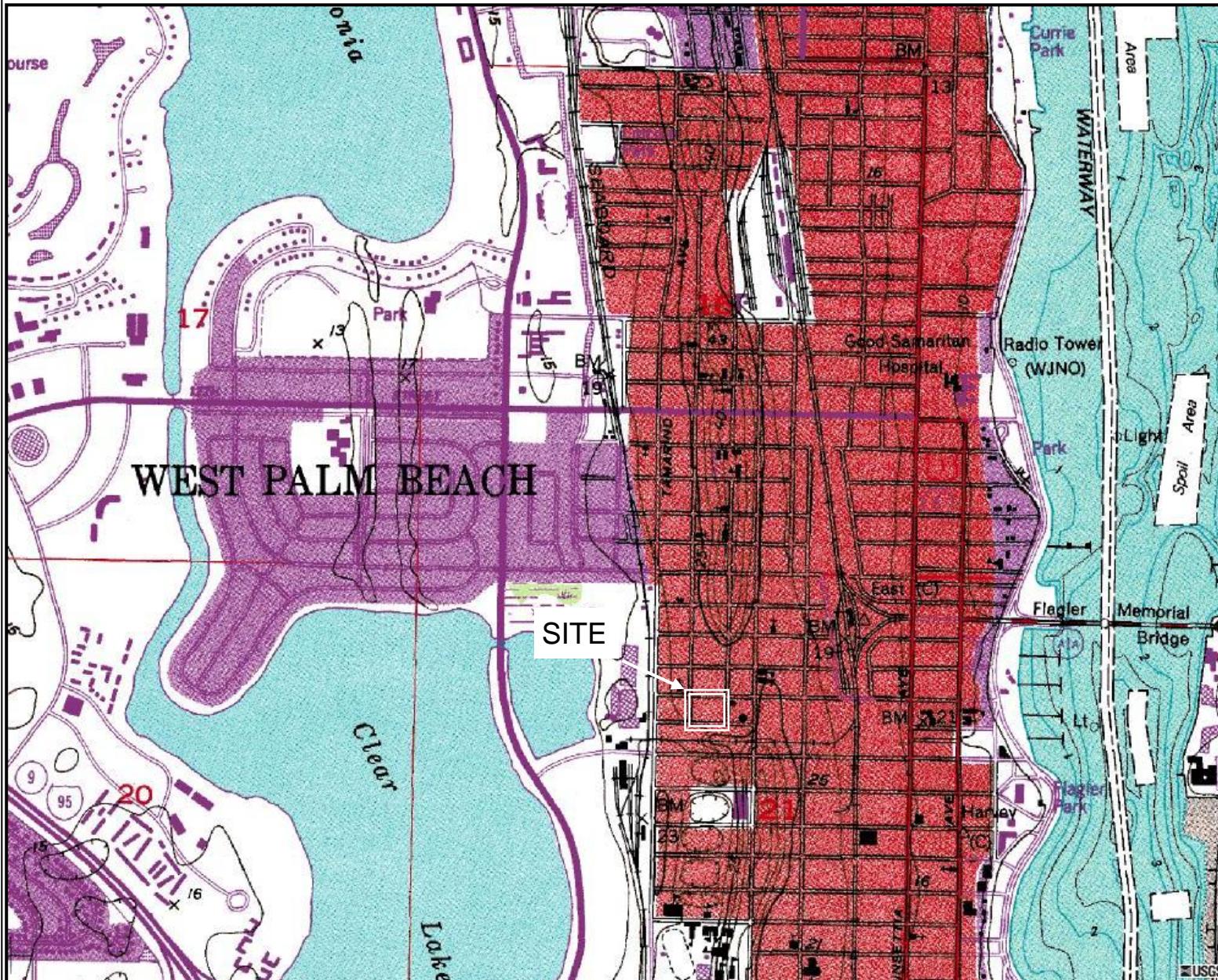
If you have any questions or comments regarding this letter report or require any additional information, please contact me at (678) 355-5550 Ext. 2244.

Respectfully,

A handwritten signature in blue ink, appearing to read "Nairimer Berrios-Cartagena". Below the signature, there is some very small, illegible printed text that appears to be a title or position, possibly "Junior Environmental Scientist".

Nairimer Berrios-Cartagena
Junior Environmental Scientist

APPENDIX A
FIGURES



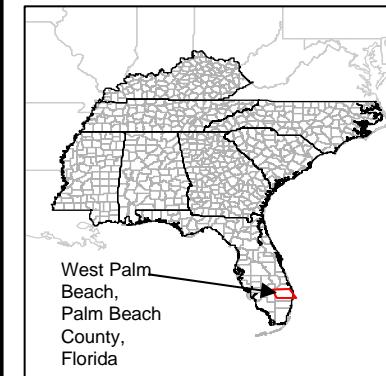
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Site Boundary

SOURCE: MODIFIED FROM
USGS 7.5 MINUTE
QUADRANGLE JULY1983

Disclaimer: This map is intended for visual orientation use only. In no way is this map to be used for precise location use.



United States Environmental Protection Agency

Palm Beach Gasification Plant
West Palm Beach
Florida
TDD No. TNA-05-003-0114

FIGURE 1
TOPOGRAPHICAL
MAP

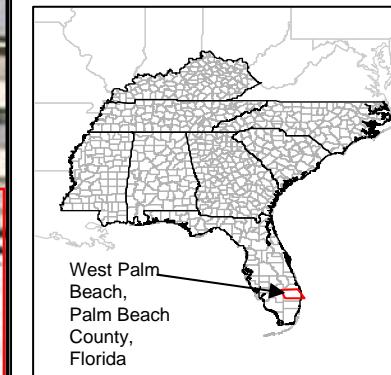




Legend

○ Soil Gas Sampling Locations

SOURCE: Google Earth 2010
Disclaimer: This map is intended for visual orientation use only. In no way is this map to be used for precise location use.



United States Environmental Protection Agency

Palm Beach Gasification Plant
West Palm Beach
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TDD No. TNA-003-114-1290

FIGURE 2
January 2011 Event
Tedlar Soil Gas
Sampling Location Map

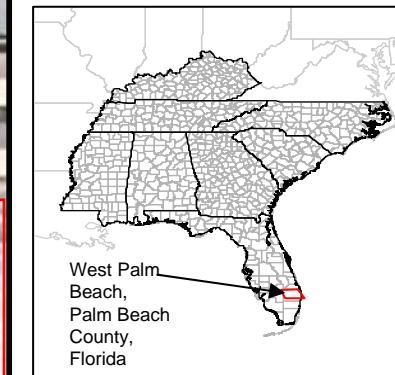




Legend

Vapor Intrusion Sampling Locations

SOURCE: Google Earth 2010
Disclaimer: This map is intended for visual orientation use only. In no way is this map to be used for precise location use.

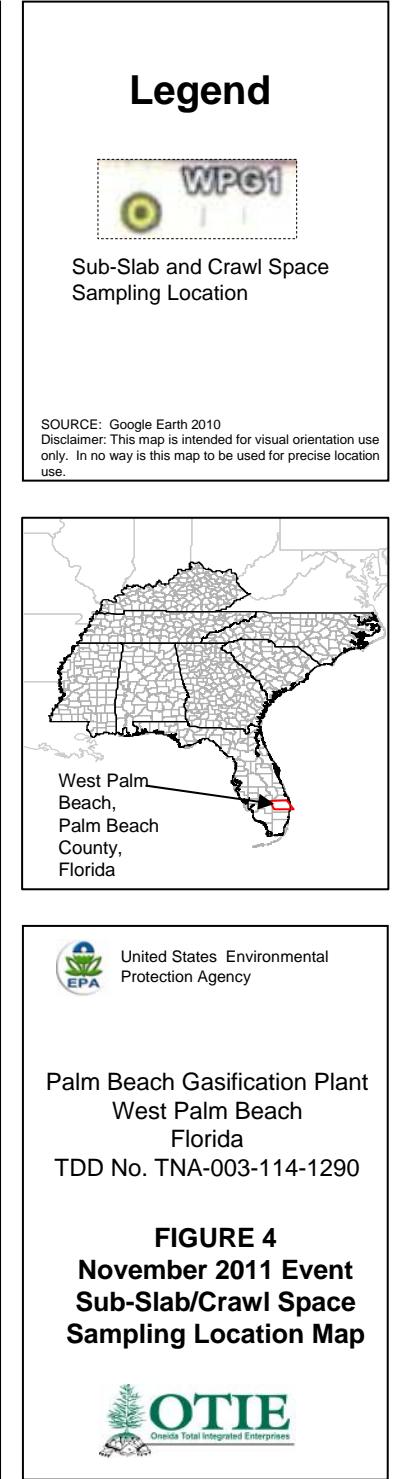
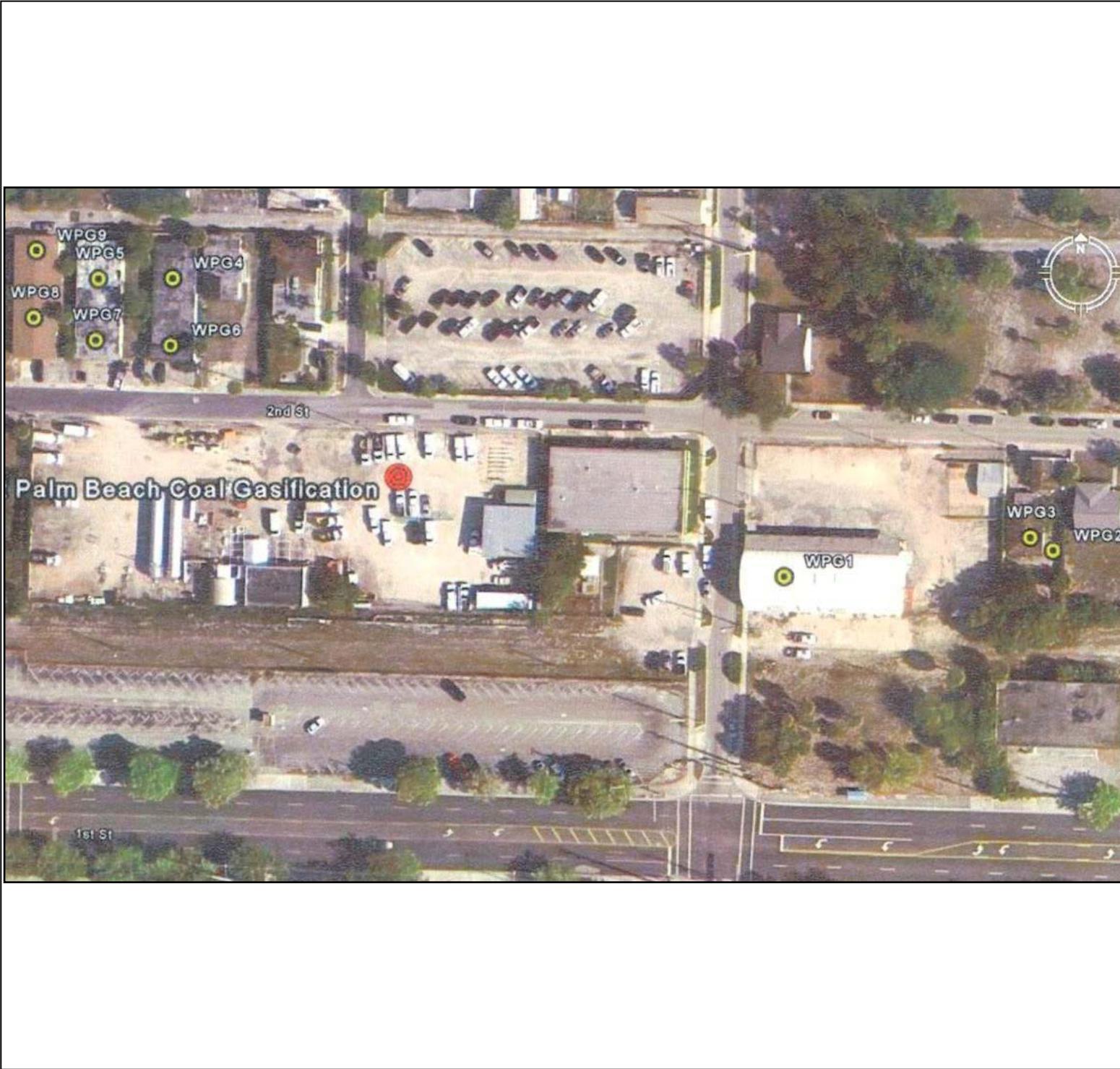


United States Environmental Protection Agency

Palm Beach Gasification Plant
West Palm Beach
Florida
TDD No. TNA-003-114-1290

FIGURE 3
January 2011 Event
Sub-Slab/Crawl Space
Sampling Location Map

OTIE
Onceda Total Integrated Enterprises



APPENDIX B
TABLES

TABLE 1
PALM BEACH GASIFICATION PLANT
SUMMARY OF SAMPLES COLLECTED

Sample #	Sample Date	Station ID	Description	Matrix	Media	Longitude	Latitude	Analyses
JANUARY 2011								
43757	1/25/2011	Ambient1	820 2nd Street	Ambient Air	Tedlar Bag	N/A	N/A	BTEX
43788	1/26/2011	Ambient2	815/809 2nd Courtyard	Ambient Air	Tedlar Bag	N/A	N/A	BTEX
43758	1/25/2011	SG-1	820 2nd Street, North (Vacant Lot)	Soil Gas	Tedlar Bag	-80.06035518	26.71538674	BTEX
43759	1/25/2011	SG-2	820 2nd Street, South (Vacant Lot)	Soil Gas	Tedlar Bag	-80.06036872	26.71520942	BTEX
43760	1/25/2011	SG-3	816 3rd Street	Soil Gas	Tedlar Bag	-80.06007369	26.71598976	BTEX
43762	1/25/2011	SG-4	816 3rd Street	Soil Gas	Tedlar Bag	-80.06008255	26.71608411	BTEX
43766	1/25/2011	SG-5	803 2nd Street	Soil Gas	Tedlar Bag	-80.05987909	26.71551542	BTEX
43767	1/25/2011	SG-6	Between 815 & 817 2nd Street	Soil Gas	Tedlar Bag	-80.0602005	26.71552264	BTEX
43768	1/25/2011	SG-7	821 2nd Street	Soil Gas	Tedlar Bag	-80.06048039	26.7155299	BTEX
43769	1/25/2011	SG-8	NW Corner of Division and 2nd Street	Soil Gas	Tedlar Bag	-80.05956764	26.71551414	BTEX
43770	1/25/2011	SG-9	Unit 309 Division Ave	Soil Gas	Tedlar Bag	-80.05956296	26.71577128	BTEX
43771	1/25/2011	SG-10	Unit 312 Division Ave (Alley)	Soil Gas	Tedlar Bag	-80.0592368	26.71587337	BTEX
43772	1/25/2011	SG-11	Median in front of 719 3rd Street	Soil Gas	Tedlar Bag	-80.05948323	26.71602854	BTEX
43773	1/25/2011	SG-12	SE corner of 3rd & Division	Soil Gas	Tedlar Bag	-80.05947278	26.71621274	BTEX
43774	1/25/2011	SG-13	Backcorner of Church on 3rd Street	Soil Gas	Tedlar Bag	-80.05917527	26.71622689	BTEX
43775	1/25/2011	SG-14	Median near 708 3rd Street	Soil Gas	Tedlar Bag	-80.05896513	26.71620756	BTEX
43776	1/25/2011	SG-15	806 3rd Street (median)	Soil Gas	Tedlar Bag	-80.05977159	26.71623187	BTEX
43777	1/25/2011	SG-16	Median btwn 810 & 816 3rd Street	Soil Gas	Tedlar Bag	-80.06002976	26.7162376	BTEX
43778	1/25/2011	SG-17	824 3rd Street (Median)	Soil Gas	Tedlar Bag	-80.06037877	26.71625145	BTEX
43779	1/25/2011	SG-18	824 3rd Street (Alley)	Soil Gas	Tedlar Bag	-80.06040233	26.71589032	BTEX
43780	1/25/2011	SG-19	816 3rd Street (Alley)	Soil Gas	Tedlar Bag	-80.06013601	26.71590804	BTEX
43781	1/25/2011	SG-20	806 3rd Street (Alley)	Soil Gas	Tedlar Bag	-80.05988253	26.71589278	BTEX
43786	1/26/2011	Unit 815-1 SS	815 2nd Street, Apt. 1	Soil Gas - Sub Slab	Tedlar Bag	N/A	N/A	BTEX
43787	1/26/2011	Unit 815-3 SS	815 2nd Street, Apt. 3	Soil Gas - Sub Slab	Tedlar Bag	N/A	N/A	BTEX
Summa-1	1/27/2011	Summa-1	815 2nd Street, Apt. 1	Soil Gas - Sub Slab	Summa Canister	N/A	N/A	VOC & Naphthalene TO-15
Summa-2	1/27/2011	Summa-2	815 2nd Street, Apt. 3	Soil Gas - Sub Slab	Summa Canister	N/A	N/A	VOC & Naphthalene TO-15
Ambient	1/27/2011	Ambient	Unit 309 Division Ave (front porch)	Ambient Air	Summa Canister	N/A	N/A	VOC & Naphthalene TO-15
Ambient	1/27/2011	Ambient	Unit 309 Division Ave (front porch)	Ambient Air	Summa Canister	N/A	N/A	VOC & Naphthalene TO-15
Summa-3	1/27/2011	Summa-3	Unit 309 Division Ave	Crawl Space Air	Summa Canister	N/A	N/A	VOC & Naphthalene TO-15
Summa-4	1/27/2011	Summa-4	Unit 312 Division Ave	Crawl Space Air	Summa Canister	N/A	N/A	VOC & Naphthalene TO-15
Summa-5	1/27/2011	Summa-5	805 3rd Street	Crawl Space Air	Summa Canister	N/A	N/A	VOC & Naphthalene TO-15

TABLE 1
PALM BEACH GASIFICATION PLANT
SUMMARY OF SAMPLES COLLECTED

Sample #	Sample Date	Station ID	Description	Matrix	Media	Longitude	Latitude	Analyses
Summa-6	1/27/2011	#R4DART#	N/A	Field Blank	Summa Canister	N/A	N/A	VOC & Naphthalene TO-15
NOVEMBER 2011								
WPG1AANOV11	11/16/2011	WPG1	Vacant lot corner of N. Sapodilla Ave. & 2nd Street	Ambient Air	Summa Canister	-80.05847	26.71511	VOC & Naphthalene TO-15
WPG2AANOV11	11/16/2011	WPG2	618 1/2 & 624 2nd Street (Backyard)	Ambient Air	Summa Canister	-80.05782688	26.71516664	VOC & Naphthalene TO-15
WPG3CANOV11	11/16/2011	WPG3	618 1/2 2nd Street	Crawl Space Air	Summa Canister	-80.05788186	26.71519395	VOC & Naphthalene TO-15
WPG3SCANOV11	11/16/2011	WPG3 - split	618 1/2 2nd Street	Crawl Space Air	Summa Canister	-80.05788186	26.71519395	VOC & Naphthalene TO-15
WPG4SGNOV11	11/15/2011	WPG4	809 2nd Street, Apt. 3	Soil Gas - Sub Slab	Summa Canister	-80.05993019	26.71573981	VOC & Naphthalene TO-15
WPG4SSGNOV11	11/15/2011	WPG4 - split	809 2nd Street, Apt. 3	Soil Gas - Sub Slab	Summa Canister	-80.05993019	26.71573981	VOC & Naphthalene TO-15
WPG5SGNOV11	11/15/2011	WPG5	815 2nd Street, Apt 3	Soil Gas - Sub Slab	Summa Canister	-80.06010675	26.71573849	VOC & Naphthalene TO-15
WPG6SGNOV11	11/15/2011	WPG6	809 2nd Street, Apt. 1	Soil Gas - Sub Slab	Summa Canister	-80.05993464	26.71559801	VOC & Naphthalene TO-15
WPG7SGNOV11	11/15/2011	WPG7	815 2nd Street, Apt. 1	Soil Gas - Sub Slab	Summa Canister	-80.06011325	26.71560908	VOC & Naphthalene TO-15
WPG8SGNOV11	11/16/2011	WPG8	817 2nd Street, Apt. 2	Soil Gas - Sub Slab	Summa Canister	-80.06026105	26.71565632	VOC & Naphthalene TO-15
WPG9SGNOV11	11/16/2011	WPG9	817 2nd Street, Apt. 4	Soil Gas - Sub Slab	Summa Canister	-80.06025512	26.71579812	VOC & Naphthalene TO-15
TB1	11/14/2011	#R4DART#	N/A	Field Blank		N/A	N/A	VOC & Naphthalene TO-15
TB2	11/14/2011	#R4DART#	N/A	Field Blank		N/A	N/A	VOC & Naphthalene TO-15

Notes:

BTEX - Benzene, toluene, ethylbenzene, xylenes

N/A - Not available

VOC - Volatile Organic Compounds

TABLE 2
PALM BEACH GASIFICATION PLANT
SUMMARY OF TEDLAR SOIL VAPOR SAMPLE RESULTS - JANUARY 2011

Sample ID	Location	Date	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene
	R4 Regional Screening Level (RSL)		0.31	5200	0.97	730	730
	R4 Removal Action Level (RAL)		31.2	15600	97.3	2190	2190
Ambient	820 2nd Street	1/25/2011	1.6 U	1.9 U	2.21 U	2.21 U	1.10 U
Ambient	815/809 2nd St Courtyard	1/26/2011	1.6 U	1.9 U	2.21 U	2.21 U	1.10 U
SG-1	820 2nd Street north	1/25/2011	4.9	5.37	2.21 U	2.21 U	1.10 U
SG-2	820 2nd Street south	1/25/2011	1.88	1.9 U	2.21 U	2.21 U	1.10 U
SG-3	816 3rd Street	1/25/2011	1.6 U	1.9 U	2.21 U	2.21 U	1.10 U
SG-4	816 3rd Street	1/25/2011	6.18	9.59	2.21 U	2.21 U	1.10 U
SG-5	803 2nd Street	1/25/2011	1.6 U	1.9 U	2.21 U	2.21 U	1.10 U
SG-6	815/817 2nd Street	1/25/2011	1.6 U	1.9 U	2.21 U	2.21 U	1.10 U
SG-7	821 2nd Street	1/25/2011	1.6 U	1.9 U	2.21 U	2.21 U	1.10 U
SG-8	NW corner of Division & 2nd St	1/25/2011	1.6 U	2.45	2.21 U	2.21 U	1.10 U
SG-9	309 Division Ave	1/25/2011	1.6 U	2.38	2.21 U	2.21 U	1.10 U
SG-10	312 Division (alley)	1/25/2011	1.6 U	1.9 U	2.21 U	2.21 U	1.10 U
SG-11	719 3rd Street (median)	1/25/2011	14.32	14.2	2.21 U	2.21 U	1.10 U
SG-12	SE corner of Division & 3rd St	1/25/2011	4.55	5.37	2.21 U	2.21 U	1.10 U
SG-13	NE corner of Church on 3rd St	1/25/2011	1.6 U	1.95	2.21 U	2.21 U	1.10 U
SG-14	708 3rd (median)	1/25/2011	1.6 U	1.9 U	2.21 U	2.21 U	1.10 U
SG-15	806 3rd St (median)	1/25/2011	2.08	3.68	2.21 U	2.21 U	1.10 U
SG-16	810/816 3rd St (median)	1/25/2011	2.28	3.53	2.21 U	2.21 U	1.10 U
SG-17	824 3rd St (median)	1/25/2011	2.57	4.67	2.21 U	2.21 U	1.10 U
SG-18	824 3rd St (alley)	1/25/2011	2.08	3.41	2.21 U	2.21 U	1.10 U
SG-19	816 3rd St (alley)	1/25/2011	1.6 U	2.65	2.21 U	2.21 U	1.10 U
SG-20	806 3rd St (alley)	1/25/2011	1.6 U	1.9 U	2.21 U	2.21 U	1.10 U
Unit 815-1 SS	815 2nd St, Apt 1	1/26/2011	1.6 U	1.9 U	2.21 U	2.21 U	1.10 U
Unit 815-3 SS	815 2nd St, Apt 3	1/26/2011	1.6 U	1.9 U	2.21 U	2.21 U	1.10 U

Notes:

Concentrations are in $\mu\text{g}/\text{m}^3$ (micrograms per cubic meters)

Samples analyzed on-site by Gas Chromatography/Mass Spectrum

Bold - Concentration exceeds the RSL for residential air

Shaded - Concentration exceeds the RAL for residential air

U - The analyte was not detected above the detection limits

TABLE 3
PALM BEACH GASIFICATION PLANT
SUMMARY OF SUMMA CANISTER AIR SAMPLING RESULTS - JANUARY 2011

Sample ID	Location	Sample Type	Date	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene
	R4 Regional Screening Level (RSL)			0.31	5200	0.97	730	730	0.07
	R4 Removal Action Level (RAL)			31.2	15600	97.3	2190	2190	7.16
Ambient	309 Division Ave	Ambient Air	1/27/2011	0.67	1.1	0.19	0.59	0.23	0.44
Ambient	309 Division Ave	Ambient Air	1/27/2011	0.66	0.99	0.18	0.58	0.23	0.4
Summa-1	815 2nd St Apt 1	Soil Vapor	1/27/2011	0.12 U	0.26	0.16 U	0.23	0.16 U	8.1
Summa-2	815 2nd St Apt 3	Soil Vapor	1/27/2011	0.3	0.86	0.5	1.3	0.45	0.66
Summa-3	Unit 309 Division Ave	Crawl Space Air	1/27/2011	0.6	1.1	0.18	0.52	0.2	0.24
Summa-4	Unit 312 Division Ave	Crawl Space Air	1/27/2011	0.54	0.94	0.24	0.72	0.29	0.37
Summa-5	Unit 805 3rd St	Crawl Space Air	1/27/2011	0.52	0.87	0.15 U	0.45	0.18	0.15 U
Summa-6	Trip Blank	Blank	1/27/2011	0.075 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U

Notes:

Concentrations are in $\mu\text{g}/\text{m}^3$ (micrograms per cubic meters)

Samples analyzed by off-site laboratory using TO-15

Bold - Concentration exceeds the RSL for residential air

Shaded - Concentration exceeds the RAL for residential air

U - The analyte was not detected above the detection limits

TABLE 4
PALM BEACH GASIFICATION PLANT
SUMMARY OF SOIL VAPOR, CRAWL SPACE, AND AMBIENT AIR SAMPLING RESULTS - NOVEMBER 2011

STATION ID	WPG1	WPG2	WPG3		WPG4	
SAMPLE NAME	WPG1AANov11	WPG2AANov11	WPG3CANov11	WPG3SCANov11	WPG4SGNov11	WPG4SSGNov11
SAMPLE DATE	11/16/2011	11/16/2011	11/16/2011		11/15/2011	
SAMPLE TYPE	Ambient Air	Ambient Air	Crawl Space Air		Crawl Space Air	
VOC						
(m- and/or p-)Xylene	BRL	BRL	BRL	BRL	0.35 J	0.32 J
1,1,1-Trichloroethane	BRL	BRL	BRL	BRL	BRL	BRL
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.58 J	0.50 J	0.61 J	0.48 J	0.59 J	0.58 J
1,1-Dichloroethene	BRL	BRL	BRL	BRL	BRL	BRL
1,2,4-Trimethylbenzene	BRL	BRL	BRL	BRL	0.18 J	0.20 J
1,2-Dichlorotetrafluoroethane	BRL	BRL	BRL	BRL	BRL	BRL
1,3,5-Trimethylbenzene	BRL	BRL	BRL	BRL	BRL	BRL
1,3-Butadiene	BRL	BRL	BRL	BRL	BRL	BRL
1,4-Dichlorobenzene	BRL	BRL	BRL	BRL	0.57 J	0.54 J
1,4-Dioxane	BRL	BRL	BRL	BRL	BRL	BRL
3-Chloropropene	BRL	BRL	0.40 J	BRL	BRL	BRL
Acetone	5.3	4.9	8.5	14	32	35
Acrylonitrile	BRL	BRL	BRL	BRL	0.18 J	0.18 J
Benzene	0.19 J	0.16 J	0.21 J	0.13 J	2.5	2.3
Bromodichloromethane	BRL	BRL	BRL	BRL	0.78 J	0.72 J
Carbon disulfide	BRL	0.11 J	0.13 J	0.86 J	5.8	5.9
Carbon Tetrachloride	0.48 J	0.42 J	0.48 J	0.48 J	0.24 J	0.28 J
Chlorobenzene	BRL	BRL	BRL	BRL	BRL	BRL
Chloroform	BRL	BRL	BRL	BRL	8.6	8.2
Chloromethane	1.3 J	1.3 J	1.5 J	1.9 J	BRL	BRL
Cyclohexane	BRL	BRL	BRL	BRL	BRL	BRL
Dichlorodifluoromethane	2.6	2.5	2.8	2.5 J	2.9	2.9
Ethyl Benzene	BRL	BRL	BRL	BRL	0.31 J	0.32 J
Heptane	BRL	BRL	BRL	BRL	BRL	BRL
Hexane	BRL	BRL	0.16 J	BRL	0.63 J	0.50 J
Isopropanol	BRL	BRL	BRL	1.3 J	7.2 J	7.3 J
Methyl Butyl Ketone	BRL	BRL	BRL	0.35 J	14	15
Methyl Ethyl Ketone	0.66 J	0.74 J	0.93 J	1.6	4.8	5.2
Methyl Isobutyl Ketone	BRL	BRL	BRL	BRL	1.6 J	1.6 J
Methylene Chloride	0.16 J	0.16 J	0.19 J	0.16 J	BRL	BRL
Naphthalene	BRL	BRL	BRL	BRL	BRL	BRL

TABLE 4
PALM BEACH GASIFICATION PLANT
SUMMARY OF SOIL VAPOR, CRAWL SPACE, AND AMBIENT AIR SAMPLING RESULTS - NOVEMBER 2011

STATION ID	WPG1	WPG2	WPG3		WPG4	
SAMPLE NAME	WPG1AANov11	WPG2AANov11	WPG3CANov11	WPG3SCANov11	WPG4SGNov11	WPG4SSGNov11
SAMPLE DATE	11/16/2011	11/16/2011	11/16/2011		11/15/2011	
SAMPLE TYPE	Ambient Air	Ambient Air	Crawl Space Air		Crawl Space Air	
o-Xylene	BRL	BRL	BRL	BRL	0.16 J	BRL
Petroleum Product	BRL	BRL	BRL	BRL	BRL	BRL
Propene	BRL	BRL	BRL	1.1 J	3.6	3.8
Styrene	BRL	BRL	BRL	BRL	0.18 J	0.16 J
Tetrachloroethene	BRL	BRL	BRL	BRL	2.0 J	1.9 J
Tetrahydrofuran	BRL	BRL	BRL	BRL	BRL	0.10 J
Toluene	0.32 J	0.37 J	0.43 J	0.43 J	1.1 J	1.1 J
Trichloroethene	BRL	BRL	BRL	BRL	BRL	BRL
Trichlorofluoromethane	1.4 J	1.5 J	1.6 J	1.4 J	4.3	4.1
TENTATIVELY IDENTIFIED COMPOUNDS (TICS)						
Acetaldehyde (TIC)	BRL	30 NJ	BRL	40 NJ	200 NJ	100 NJ
Butane (TIC)	BRL	BRL	50 NJ	30 NJ	100 NJ	100 NJ
Butanol (TIC)	BRL	BRL	BRL	BRL	400 NJ	400 NJ
Dichlorofluoroethane (TIC)	BRL	BRL	BRL	BRL	100 NJ	90 NJ
Ethanol (TIC)	BRL	BRL	BRL	BRL	BRL	20 NJ
Hexanal (TIC)	BRL	BRL	BRL	BRL	BRL	BRL
Limonene (TIC)	BRL	BRL	BRL	BRL	BRL	BRL
Methylbutane (TIC)	BRL	BRL	BRL	BRL	BRL	BRL
Methylpropene (TIC)	BRL	BRL	BRL	BRL	40 NJ	BRL
Pentane (TIC)	BRL	BRL	BRL	BRL	20 NJ	BRL
Pinene (TIC)	BRL	BRL	BRL	BRL	BRL	BRL
Unidentified Compound(s)	100 J	BRL	BRL	BRL	BRL	BRL

Notes:

Concentrations are in $\mu\text{g}/\text{m}^3$ (micrograms per cubic meters)

Samples analyzed by off-site laboratory using TO-15

BRL - The analyte was not detected above the reporting limits

J - Concentration is estimated

NJ - Tentatively identified compound; concentration is estimated

VOC - Volatile Organic Compounds

TABLE 4
PALM BEACH GASIFICATION PLANT
SUMMARY OF SOIL VAPOR, CRAWL SPACE, AND AMBIENT AIR SAMPLING RESULTS - NOVEMBER 2011

STATION ID	WPG5	WPG6	WPG7	WPG8	WPG9
SAMPLE NAME	WPG5SGNov11	WPG6SGNov11	WPG7SGNov11	WPG8SGNov11	WPG9SGNov11
SAMPLE DATE	11/15/2011	11/15/2011	11/15/2011	11/16/2011	11/16/2011
SAMPLE TYPE	Soil Gas				
VOC					
(m- and/or p-)Xylene	0.49 J	4.0	0.81 J	0.66 J	2.4 J
1,1,1-Trichloroethane	BRL	0.22 J	BRL	0.25 J	0.18 J
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.55 J	0.58 J	0.69 J	0.64 J	0.41 J
1,1-Dichloroethene	BRL	0.32 J	BRL	BRL	BRL
1,2,4-Trimethylbenzene	0.26 J	3.8	0.77 J	0.35 J	3.3
1,2-Dichlorotetrafluoroethane	BRL	BRL	0.27 J	BRL	BRL
1,3,5-Trimethylbenzene	BRL	2.0	BRL	BRL	0.27 J
1,3-Butadiene	BRL	BRL	BRL	BRL	3.3
1,4-Dichlorobenzene	3.8	2.1 J	0.33 J	0.43 J	1.1 J
1,4-Dioxane	BRL	BRL	BRL	BRL	0.55 J
3-Chloropropene	BRL	BRL	BRL	BRL	BRL
Acetone	40	48	37	170 J	230 J
Acrylonitrile	0.14 J	0.17 J	0.19 J	0.21 J	0.70 J
Benzene	1.1 J	4.0	1.3	1.4	4.9
Bromodichloromethane	BRL	BRL	BRL	0.33 J	BRL
Carbon disulfide	2.1	3.3	2.8	2.1	3.1
Carbon Tetrachloride	0.26 J	0.84 J	0.29 J	0.39 J	0.35 J
Chlorobenzene	BRL	0.19 J	BRL	BRL	0.35 J
Chloroform	1.3 J	38	4.7	12	3.1
Chloromethane	0.22 J	0.28 J	BRL	0.62 J	BRL
Cyclohexane	BRL	5.7	BRL	BRL	41
Dichlorodifluoromethane	2.7	2.8	3.3	2.8	2.4
Ethyl Benzene	0.36 J	1.7 J	0.46 J	0.41 J	2.9
Heptane	BRL	5.3	BRL	7.5	65
Hexane	0.45 J	1.1 J	0.40 J	2.7	15
Isopropanol	17 J	1.7 J	13 J	520	120 J
Methyl Butyl Ketone	4.2	BRL	0.73 J	3.2 J	BRL
Methyl Ethyl Ketone	8.4	10	6.6	23	21
Methyl Isobutyl Ketone	0.65 J	BRL	BRL	1.5 J	1.0 J
Methylene Chloride	BRL	0.19 J	BRL	BRL	BRL
Naphthalene	BRL	33	3.0 J	BRL	6.4 J

TABLE 4
PALM BEACH GASIFICATION PLANT
SUMMARY OF SOIL VAPOR, CRAWL SPACE, AND AMBIENT AIR SAMPLING RESULTS - NOVEMBER 2011

STATION ID	WPG5	WPG6	WPG7	WPG8	WPG9
SAMPLE NAME	WPG5SGNov11	WPG6SGNov11	WPG7SGNov11	WPG8SGNov11	WPG9SGNov11
SAMPLE DATE	11/15/2011	11/15/2011	11/15/2011	11/16/2011	11/16/2011
SAMPLE TYPE	Soil Gas				
o-Xylene	0.22 J	2.1	0.46 J	0.41 J	1.1 J
Petroleum Product	BRL	N	BRL	N	N
Propene	4.6	7.8	14	9.2	180 J
Styrene	0.18 J	BRL	0.21 J	0.29 J	31
Tetrachloroethene	9.8	4.2	63	2.9	0.84 J
Tetrahydrofuran	BRL	0.13 J	BRL	0.16 J	0.23 J
Toluene	2.0	18	2.0	2.2	9.8
Trichloroethene	BRL	7.8	0.29 J	BRL	BRL
Trichlorofluoromethane	1.5 J	2.2 J	1.6 J	1.4 J	1.4 J
TENTATIVELY IDENTIFIED COMPOUNDS (TICS)					
Acetaldehyde (TIC)	BRL	900 NJ	100 NJ	BRL	90 NJ
Butane (TIC)	20 NJ	200 NJ	600 NJ	BRL	2000 NJ
Butanol (TIC)	BRL	BRL	BRL	BRL	BRL
Dichlorofluoroethane (TIC)	90 NJ	70 NJ	100 NJ	BRL	BRL
Ethanol (TIC)	BRL	BRL	BRL	BRL	200 NJ
Hexanal (TIC)	BRL	BRL	BRL	BRL	30 NJ
Limonene (TIC)	BRL	BRL	BRL	BRL	30 NJ
Methylbutane (TIC)	BRL	BRL	BRL	BRL	60 NJ
Methylpropene (TIC)	BRL	BRL	BRL	BRL	BRL
Pentane (TIC)	BRL	50 NJ	BRL	BRL	BRL
Pinene (TIC)	BRL	BRL	BRL	BRL	20 NJ
Unidentified Compound(s)	BRL	BRL	BRL	BRL	100 J

Notes:

Concentrations are in $\mu\text{g}/\text{m}^3$ (micrograms per cubic meters)

Samples analyzed by off-site laboratory using TO-15

BRL - The analyte was not detected above the reporting limits

J - Concentration is estimated

NJ - Tentatively identified compound; concentration is estimated

VOC - Volatile Organic Compounds

APPENDIX C
LOGBOOK NOTES

11-29-10

0900 01817C

w/ EPA - St. Lman -
-L. von OLDE NERVO -

- size

9:12 - Knocked on - no answer

803 - 2nd fl -

2 apart structure
1 floor

≤ LAS FOUNDATION

9:13 - 309 DIVISION

BELT 1 story - SLAB
FOUNDATION - GATE - FENCE 3'
DOOR Bell - RING -

- WEATHER - 70's OVERCAST -

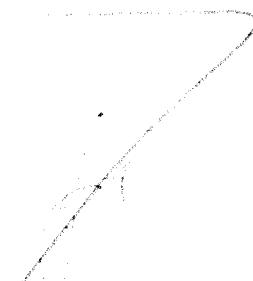
Rain last night -

- RANG DOOR BELL

- knocked -

9:18

315 DIVISION



309 Division -

in Doon Air Study
PRINT - Del's HARVEY -

SIGN

(SLAB)
CONTACT # 833-6195
- Spoke w/ DAUGHTER

315 DIVISION

INDOOR AIR STUDY
PRINT AUDREY DIPAMARINE

SIGN

CONTACT # 685-3194

09.20/18-

FRIENDSHIP MISSIONARY
BAPTIST CHURCH

09.20/18-

305 3RD ST

ABANDONED

2 APT - STUCCO -
3 FT - FENCE -

LEAVES

09:25 - Mrs Harvey (801 Div. 8a)
called back

- 09:27 - ^{not in} " "
Mrs. Harvey explain
property
- Plan E
- Plan -
- Cross' pass -
- Mrs. Harvey we informed
Gave appr.
- "YOU HAVE my PERMISSION"
lived since
1969 -

09:33 -
800 - 3rd fl

VACANT ABANDONED

CORE logic FIELD SW

Fax - 8734532
FUND property
CODE H

5000 545 -
we have access -
- no interior access

09:37
09:30 / 812 - 3rd
- 2 Apt - concrete -
- 3 Fence
- NO Answer to knock

09:39 -
822 - 3rd -
WASH - STUDY
- TOILET to common

11-19-12

822-D

CONTACT -

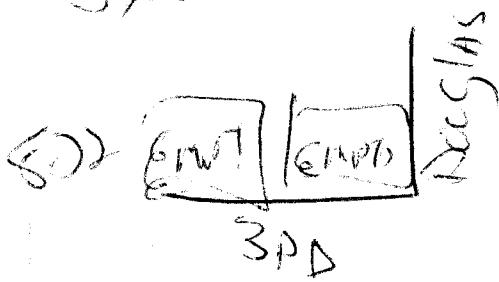
- dominic Jackson

09:41

- 561 249 3675
" IF it don't cost
nothing you have my
PERMISSION "

16 month

5 year



09:46 - 821 - 2nd St

- (was was scenario)

09:48

817 - 2nd St

- Resident been home
3 months

- tells them smell in
they smell strong smell
- 16 windows broken

(was was)

- Rufus Washington
- 11 561-835-1203
- ROMS provided info
- Melvin McLain
BRENDA MCKINNEY
- E15-809-2015-
are fine HCCD

11:05 - 801 2nd St

- asked to leave
- they closes the door on me
- DARETON (?)

- name Dan Bell

11:30 - no answer

821 - 2nd St

1-24-11

0800 - ON SITE

Weather loc's - cloudy -

- dry -

moist 1-23-11

ON SITE AT 803 DIVISION

09:00 - no car on site

10:30 contacted Jerry Silman (SOA)

- City of Palm Beach FL
clearing sewers -

- TRASH PICK UP

- Continuous activity at FPU
Florida Power Utility -

11 prepare gas facilities

- Client / Investor

Getting PESTICIDE SPRAY CONTROL

11:30 meet w/ Teng -

very off to meeting -

16:00 meet w/ Phil S.

Lockheed Martin

- Walker / Survey THE SITE

PLANNED AREA TO PARK

TAGO -

1700 off site -

meet at 8AM *Jay*

0800 ON SITE -

- weather slight wind

- cloudy - expect rain

TONIGHT -

- 70°F -

8:30 - TAGO on site parked
on Division St

WALKER HIGH BOILERS - RE
UTILITY WORK OUT -

EN7 TEAM -

- Greg Powell

- Dave

- Gary

Cuthbertson - PH.L

- Bill Geller

- L. van der Berg

- SOE T. Silman -

- PLAN work on OPEN lots
GILL water mark out is done

- working on SOURCE area

-

1-25-11

- 09:00 ON SOURCE S170°
 - SOIL GAS (SG)
 -(S.G.)
 9:20- SLAMBOB (3') p.107 hole
 - PUSH 5' stainless steel
 rods -
 - 9:40- SG 2
 - 9:46 SG 3.
 - 3' slambob
 - 5' stainless rods - manuege
 push
- STC comp runs - ~1 liters air
 for ~1 min

10:12 - SG-4 -

- REVIEW ERT is
- Doing a small quick soil gas survey w/
4 points in open lots

Once water marks utility

- THEN - A FULL S.G.,
will continue

- Gas bags will go
to TAGA - for
initial testing

W. PALM BOOGY

- 10:57 -

- Sampled 4 pts -
SOIL GAS -
~1 liter ~1 min
- Took two bags per point
- BAG TWO -
Herring theory was BAG 1
would have ambient air from
- In the tube cooler down
hole - BAG 2 (2) would
have been buried and high
soil gas -

SG#	N	W
POINT	→	—
SG 1	26.71501496	80.06054537
2	26.71483752	80.06055902
3	26.71561700	80.06026444
4	26.71571260	80.06027311

TGSG# FOR B7ER GC/mc
 11:28' WATER UTILITY MARK UP
 Shallow

12:24 WATER ST. 11 on S1 T. 3'



1-25-6

1-25-11

13:20 - SG-5

13:27 - SG-6 -

SG-1, 2 820 2nd st

SG-3 816 3rd st

SG-5 803 2nd st

SG-6 815 2nd st

SG-7 C. 821 - 2nd st

13:37 - SG-7

-

13:44 - work on SG-8

corner (NW) of
2nd st. 8th division

- no machine on rods

13:57 - SG-9

at 309 division -

SG-14:06 - at SE corner of
312 Division Ave -

SG-11 front of 718 SW
SG-12 church division NW

SG-13 N side of 718 -

SG-14 - 708 SW st.

1-25-11

14:40 SG-15

A7 800 3rd

14:45 SG 16 -

A7 810/816 - on st.

15:00 SG-17 at 824 3rd

15:16 3 - 18 - back of
824 3rd

15:20 - SG-19 back end 816 DIV

15:30 - SG-20 - BK 806 DIV -

- 15:46 - EAT will leave

4 stay in steel rods in 74th

- Ground - SG 1, 4, 11, 12 -

→ over night -

Expect rain tomorrow -

The remainder of the rods

will be pulled -

16:35 - rain -

JAN

1-26-11

07:30 - CONSILE -

Rain/lightning LAST NIGHT

TEMP 62°F

Checking up residents to gain
Access -

8:30 - 809 2nd Street - REBUSES -

Reportedly Recently out of Hospital
Ans - Not sure if Doctor will approve.

8:40 815 2nd - MR. Davis -

Apt #1 Available -

- NO OTHER OCCUPANTS IN 815
OR 809 2nd St -

09:00 - ENT installing vapor tube

9:15 - NO RESPONSE FROM

UNITS AT 817 2nd St

9:25 - NO RESPONSE FROM 810

809 St

NO RESPONSE FROM UNITS AT

(m) 810 806 3rd St

10:00 Spoke to resident at
815 Division - HE will

CONFIRM w/ LANDLORD -

10:45 809 Division says okay -
SHE HAS A CRAWL SPACE SO

1-26-11

so 809 DIVISION WILL HAVE A
SUMMA CANNISTER PUT IN
CRAWL SPACE -

10:20 - 812 3rd - says
NO ONE WILL BE HOME FOR
ACCESS so no sampling

11:30 MAINTENANCE MAN OF 815
2ND ST - GIVES US ACCESS
TO APT # 3 -

Review -

2 Homes will have regular i:

815th SUMMA CANNISTER samples

815 2nd St unit 1 & 3 -

2 Homes - will HAVE SUMMA
CANNISTERS IN CRAWL SPACE -

- 309 DIVISION AVE

- 812 DIVISION AVE

- 805 3RD STREET

12:37 - 815 DIVISION AVENUE
REBUSES -

- CHURCH 718 HAS NOT CALLED
BACK

Jay

1-26-11

15:30 - placed

A SUMMA CANISTER IN

815 2nd fl Apt 1 -

one in Apt 3 -

- ZOOL REQ TELAR SUMMA

AND AMBIENT SAMPLE -

16:07 - placed SUMMA

UNDER 809 - DIVISION -

② 16:12 removed under 312 DIVISION

16:17 removed under 3rd fl

16:30 removed - from 815 2nd

fl UNIT #3 -

- STATE PL REQ ON SITE

1-26-11

15:30 - going up

815 2nd fl Apt 1

TO RETRIEVE SUMMA

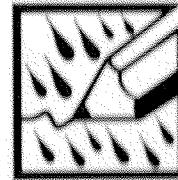
16:02 - pulled summa from
3rd Division

Restin Smith

561-681-6671 -

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Palm Beach Gasification Plant



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County, FL 33401

Project Palm Beach Gas.
Plant

FL D984169 201

CONTENTS

PAGE

REFERENCE

DATE

m Beach Gasification Plant 11/15/2011.

ther: 79°F

: EPA, SESD + START meet to discuss logistics for the air sampling. Background location might be located the back yard of Florida Public Utilities building.

: OSC Chuck Berry & SESD Tim are asking FL Public Utilities administration for authorization to use property place a summa canister.

: Administration gave EPA + SESD permission to place the summa canister FL Public Utilities open lot (in front of the street of main building N. Sassafras Avenue); Control Sample

Ico Can Max pressure 40 PSIG #3927)

m Slag (SESD)

ng Tager (SESD)

Chuck Berry (EPA)

errie Stilman (EPA)

WPS 1 AA

@ 0854

N 36.71511

W 80.05847

Palm Beach Gas. Plant 11/15/11

3

0927: SESD preparing to install a sample station for an additional ambient/ control sample. Location: backyard to right of house facing backdoor.

SilcoCan #4506

note: crawl space sample location; located at the back of the house; right side of back door - immediately below the window. This location will have a duplicate.

1000: SESD putting summa canisters together for crawl space samples, Wilhelmina Melvin → tenant of ^{608.5} #~~622~~ house (17 years old + 19 yr. old)

1008: Summa canisters opened and start collecting sample.

Parent sample: #4609 Dep #4475

1011: Ambient sample (control sample) started collecting sample.

N. 36.71511 W 80.05797 ± 01

n Beach fas. Plant

11/15/11.

SESD installing slab slab at
bldg 809 unit #3, this location will
be a duplicate

note: no pid or fid readings above
ambient air in any of sample locations
summa canisters to be used are
71 orifice #10
80 orifice #11

it has to be used in order to collect the
slab sample in 24 hrs; otherwise
cannister will fill in less than 2 hours

: Both cannisters collecting samples
: Team leaving property for lunch

K

: Team at Building 815 #3 unit

: SESD drilling hole / installation
room at left side (subslab)

: owner will change carpets later on

PID humidity ↑ 10 ppm

FID " " - 1.5 ppm

P.B.G. Plant

11/15/2011

EPA sample her apt. but will give access
to unit #2 tomorrow morning. Team
will Sample around 8:30 - 9:00 AM

1340: EPA + START asked Mr. Jones
and he gave permission to sample around
10:00 hours

Sunny

1330: SESD preparing to install Cannister
at bldg 809 unit #1; water heater area

1350: Summa canister installed (subslab)

{ PID: 400 very high humidity
{ FID: 0

Can # 5927 orifice #2

Sarah Lockhart

1402: Start collecting sample

1406: Team at Bldg 815 unit #1

1414: SESD drilling at ^{water} heater closet

Can # 4394 orifice #3

PID: 11.00 > ppm

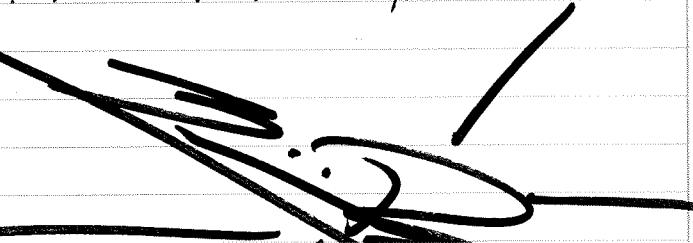
FID: -0.78 > ppm

1437: Collecting sample

Beach Gas. Plant

11/16/2011

- Team left the place as it was.
 - : Canister at Bldg 815 Unit #3; closed (stopped collecting sample)
 - Team pouring concrete into the hole (sample was collected)
 - : canister turned off at Bldg 809 unit #1
 - : Team pouring concrete into sample
 - : Team at Bldg 815 unit #2
 - : canister turned off
- Elvin Davis
- : Team poured concrete into the sample hole
 - : Team left the site



Palm Beach Gas. Plant

11/16/2011

Weather: 81°F

0830: Team meet to discuss logistics.

0855: Control Sample #1; located at the FL Public Utilities empty lot; closed. Mr. Louis from FL P.U. gave keys to access the sample canister.

0856: Unit unstalled.

0904: Team arrived to Building 817 unit #1 to ask for unit #2 keys.

0906: Team preparing to install slab slab at water heater closet (Floor)

0928: Installed

PID: 398 ppm } very high humidity
FID: 2.85 + moisture

Can #5930; on fire #4

0936: Collecting sample @ 817 #2

0942: Team at 817 #4 and began installation

PID: -10 → ppm

alm Beach Gas. Plant

11/16/11

Team arrived to house # 624 / 618.5
recover canisters.

canisters turned off at 624/618.5

: canister used as Control sample #2
turned off.

: Team left sample location as it was.

: Team arrived to bldg. 817 unit 2

Canister at this location turned off

Team pouring concrete into sub slab

: EPA turned off the breaker at

-#2 as requested by Anika Brewer

: Team turned off canister at Bldg
unit #4

: Team pouring concrete into sub

: EPA locked 817 #2 and placed

on Ms. Brewer mail box

Team left the site

APPENDIX D
PHOTOGRAPHIC LOG



Official Photograph No. 1

Site Name: Palm Beach Gasification Plant **Date:** November 15, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START
Subject: Background location #1 in North Sapodilla Ave at FL-West Palm Beach Public Utilities property; summa canister codification.



Official Photograph No. 2

Site Name: Palm Beach Gasification Plant **Date:** November 15, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START
Subject: Background location #1 in North Sapodilla Ave at FL-West Palm Beach Public Utilities Property; facing utilities facility.



Official Photograph No. 3

Site Name: Palm Beach Gasification Plant

Date: November 15, 2011

Location: West Palm Beach, Palm Beach County, FL

TDD No: TNA-05-003-0114

Photographer: Nairimer Berrios-Cartagena, START

Subject: Background location #1 in North Sapodilla Ave at FL-West Palm Beach Public Utilities Property; facing North Sapodilla Ave.



Official Photograph No. 4

Site Name: Palm Beach Gasification Plant

Date: November 15, 2011

Location: West Palm Beach, Palm Beach County, FL

TDD No: TNA-05-003-0114

Photographer: Nairimer Berrios-Cartagena, START

Subject: Background location #1 completed installation.



Official Photograph No. 5

Site Name: Palm Beach Gasification Plant **Date:** November 15, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START
Subject: 618.5 2nd Street property adjacent to Background location #1.



Official Photograph No. 6

Site Name: Palm Beach Gasification Plant **Date:** November 15, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START
Subject: Installation of summa canisters at 618.5 2nd Street property crowl space.



Official Photograph No. 7

Site Name: Palm Beach Gasification Plant **Date:** November 15, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START
Subject: Installation of summa canisters at 618.5 2nd Street property crowl space completed.



Official Photograph No. 8

Site Name: Palm Beach Gasification Plant **Date:** November 15, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START
Subject: Summa canisters at 618.5 2nd Street property crowl space completed. This location had a duplicate sample.



Official Photograph No. 9

Site Name: Palm Beach Gasification Plant **Date:** November 15, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START
Subject: Background location #2 at 618.5 2nd Street property.



Official Photograph No. 10

Site Name: Palm Beach Gasification Plant **Date:** November 15, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START
Subject: Background location #2 at 618.5 2nd Street property, installation completed.



Official Photograph No. 11

Site Name: Palm Beach Gasification Plant **Date:** November 15, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START

Subject: Apartments building 809 at 2nd Street in front of the Palm Beach Gasification Plant tanks area.



Official Photograph No. 12

Site Name: Palm Beach Gasification Plant **Date:** November 15, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START

Subject: Apartments building 809 at 2nd Street in front of the Palm Beach Gasification Plant tanks area.
Apartment #1.



Official Photograph No. 13

Site Name: Palm Beach Gasification Plant **Date:** November 15, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START
Subject: Building 809/ Apartment #1 at 2nd Street summa canister installation.



Official Photograph No. 1

Site Name: Palm Beach Gasification Plant **Date:** November 15, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START
Subject: Apartments building 809 at 2nd Street in front of the Palm Beach Gasification Plant tanks area.
Apartment #3.



Official Photograph No. 13

Site Name: Palm Beach Gasification Plant

Date: November 15, 2011

Location: West Palm Beach, Palm Beach County, FL

TDD No: TNA-05-003-0114

Photographer: Nairimer Berrios-Cartagena, START

Subject: Building 809/ Apartment #3 at 2nd Street summa canister installation; duplicate location.



Official Photograph No. 14

Site Name: Palm Beach Gasification Plant

Date: November 15, 2011

Location: West Palm Beach, Palm Beach County, FL

TDD No: TNA-05-003-0114

Photographer: Nairimer Berrios-Cartagena, START

Subject: Apartments building 815 at 2nd Stret in front of the Palm Beach Gasification Plant tanks area.



Official Photograph No. 15

Site Name: Palm Beach Gasification Plant **Date:** November 15, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START
Subject: Building 815/ Apartment #1 at 2nd Street summa canister installation.



Official Photograph No. 16

Site Name: Palm Beach Gasification Plant **Date:** November 15, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START
Subject: Building 815/ Apartment #3 at 2nd Street summa canister installation.



Official Photograph No. 17

Site Name: Palm Beach Gasification Plant **Date:** November 15, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START
Subject: Building 815/ Apartment #3 at 2nd Street summa canister installation.



Official Photograph No. 18

Site Name: Palm Beach Gasification Plant **Date:** November 16, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START
Subject: Apartments building 817 at 2nd Street in front of the Palm Beach Gasification Plant tanks area.



Official Photograph No. 19

Site Name: Palm Beach Gasification Plant **Date:** November 16, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START
Subject: Building 817/ Apartment #2 at 2nd Street.



Official Photograph No. 20

Site Name: Palm Beach Gasification Plant **Date:** November 16, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START
Subject: Building 817/ Apartment #2 at 2nd Street summa canister installation.



Official Photograph No. 19

Site Name: Palm Beach Gasification Plant **Date:** November 16, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START
Subject: Building 817/ Apartment #4 at 2nd Street.



Official Photograph No. 22

Site Name: Palm Beach Gasification Plant **Date:** November 16, 2011
Location: West Palm Beach, Palm Beach County, FL **TDD No:** TNA-05-003-0114
Photographer: Nairimer Berrios-Cartagena, START
Subject: Building 817/ Apartment #4 at 2nd Street summa canister installation.

APPENDIX E
ANALYTICAL RESULTS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

January 13, 2012

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report

Project: 12-0060, West Palm Beach Gasification

Superfund Remedial

FROM: Janet Muse

OCS Chemist

THRU: Sallie Hale, Chief

ASB Organic Chemistry Section

TO: Tim Slagle

This data report is being reissued. Some or all of these results were previously reported. Please substitute the corrected results for those results previously reported. Please refer to the Report Narrative for more details.

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Volatile Organics (VOA)

Volatile organic compounds

EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Report Narrative for Project: 12-0060

1/13/12 jm - Data was rereported to include the corrected TICs for the samples.

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

SAMPLES INCLUDED IN THIS REPORT

Project: 12-0060, West Palm Beach Gasification

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
TB1	E114801-01	Trip Blank Air	11/15/11 00:00	11/21/11 14:44
TB2	E114801-02	Trip Blank Air	11/15/11 08:00	11/21/11 14:44
WPG1AANov11	E114801-03	Ambient Air	11/16/11 00:00	11/21/11 14:44
WPG2AANov11	E114801-04	Ambient Air	11/16/11 00:00	11/21/11 14:44
WPG3CANov11	E114801-05	Crawlspace Air	11/16/11 00:00	11/21/11 14:44
WPG3SCANov11	E114801-06	Crawlspace Air	11/16/11 00:00	11/21/11 14:44
WPG4SGNov11	E114801-07	Soil Gas	11/15/11 00:00	11/21/11 14:44
WPG4SSGNov11	E114801-08	Soil Gas	11/15/11 00:00	11/21/11 14:44
WPG5SGNov11	E114801-09	Soil Gas	11/15/11 00:00	11/21/11 14:44
WPG6SGNov11	E114801-10	Soil Gas	11/15/11 00:00	11/21/11 14:44
WPG7SGNov11	E114801-11	Soil Gas	11/15/11 00:00	11/21/11 14:44
WPG8SGNov11	E114801-12	Soil Gas	11/16/11 00:00	11/21/11 14:44
WPG9SGNov11	E114801-13	Soil Gas	11/16/11 00:00	11/21/11 14:44



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
D-2	Due to Matrix Interference, the sample cannot be accurately quantified. The reported result is estimated.
J	The identification of the analyte is acceptable; the reported value is an estimate.
N	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
Q-2	Result greater than MDL but less than MRL.
QC-1	Analyte concentration low in continuing calibration verification standard
QC-2	Analyte concentration high in continuing calibration verification standard
QC-4	Result greater than the highest point on the calibration curve
QL-1	Laboratory Control Spike Recovery less than method control limits
QL-2	Laboratory Control Spike Recovery greater than method control limits
QR-2	MRL verification recovery greater than upper control limits.

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID: TB1****Lab ID: E114801-01****Station ID:****Matrix: Trip Blank Air****Date Collected: 11/15/11 0:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.0	U	ug/m3	4.0	11/30/11 11:55	11/30/11 22:13	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.5	U	ug/m3	2.5	11/30/11 11:55	11/30/11 22:13	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	3.2	U	ug/m3	3.2	11/30/11 11:55	11/30/11 22:13	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	3.4	U	ug/m3	3.4	11/30/11 11:55	11/30/11 22:13	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	2.5	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-34-3	1,1-Dichloroethane	1.8	U	ug/m3	1.8	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	1.7	11/30/11 11:55	11/30/11 22:13	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	3.3	U	ug/m3	3.3	11/30/11 11:55	11/30/11 22:13	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 22:13	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	3.6	U	ug/m3	3.6	11/30/11 11:55	11/30/11 22:13	EPA TO-15
95-50-1	1,2-Dichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	11/30/11 22:13	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	1.8	11/30/11 11:55	11/30/11 22:13	EPA TO-15
78-87-5	1,2-Dichloropropane	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	3.1	U	ug/m3	3.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 22:13	EPA TO-15
106-99-0	1,3-Butadiene	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
541-73-1	1,3-Dichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	11/30/11 22:13	EPA TO-15
106-46-7	1,4-Dichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	11/30/11 22:13	EPA TO-15
123-91-1	1,4-Dioxane	4.3	U	ug/m3	4.3	11/30/11 11:55	11/30/11 22:13	EPA TO-15
107-05-1	3-Chloropropene	2.7	U	ug/m3	2.7	11/30/11 11:55	11/30/11 22:13	EPA TO-15
622-96-8	4-Ethyltoluene	4.8	U	ug/m3	4.8	11/30/11 11:55	11/30/11 22:13	EPA TO-15
67-64-1	Acetone	2.6	U	ug/m3	2.6	11/30/11 11:55	11/30/11 22:13	EPA TO-15
107-13-1	Acrylonitrile	0.97	U	ug/m3	0.97	11/30/11 11:55	11/30/11 22:13	EPA TO-15
71-43-2	Benzene	1.5	U	ug/m3	1.5	11/30/11 11:55	11/30/11 22:13	EPA TO-15
100-44-7	Benzyl chloride	2.4	U	ug/m3	2.4	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-27-4	Bromodichloromethane	3.2	U	ug/m3	3.2	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-25-2	Bromoform	34	U	ug/m3	34	11/30/11 11:55	11/30/11 22:13	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID: TB1****Lab ID: E114801-01****Station ID:****Matrix: Trip Blank Air****Date Collected: 11/15/11 0:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	1.7	U	ug/m3	1.7	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-15-0	Carbon disulfide	1.5	U	ug/m3	1.5	11/30/11 11:55	11/30/11 22:13	EPA TO-15
56-23-5	Carbon Tetrachloride	2.9	U	ug/m3	2.9	11/30/11 11:55	11/30/11 22:13	EPA TO-15
108-90-7	Chlorobenzene	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-00-3	Chloroethane	3.1	U	ug/m3	3.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
67-66-3	Chloroform	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 22:13	EPA TO-15
74-87-3	Chloromethane	2.4	U	ug/m3	2.4	11/30/11 11:55	11/30/11 22:13	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	1.8	11/30/11 11:55	11/30/11 22:13	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
110-82-7	Cyclohexane	1.7	U	ug/m3	1.7	11/30/11 11:55	11/30/11 22:13	EPA TO-15
124-48-1	Dibromochloromethane	4.1	U	ug/m3	4.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.3	U	ug/m3	2.3	11/30/11 11:55	11/30/11 22:13	EPA TO-15
141-78-6	Ethyl Acetate	4.3	U	ug/m3	4.3	11/30/11 11:55	11/30/11 22:13	EPA TO-15
100-41-4	Ethyl Benzene	2.0	U	ug/m3	2.0	11/30/11 11:55	11/30/11 22:13	EPA TO-15
142-82-5	Heptane	2.0	U	ug/m3	2.0	11/30/11 11:55	11/30/11 22:13	EPA TO-15
87-68-3	Hexachlorobutadiene	4.8	U	ug/m3	4.8	11/30/11 11:55	11/30/11 22:13	EPA TO-15
110-54-3	Hexane	1.7	U	ug/m3	1.7	11/30/11 11:55	11/30/11 22:13	EPA TO-15
26635-64-3	Isooctane	2.3	U	ug/m3	2.3	11/30/11 11:55	11/30/11 22:13	EPA TO-15
67-63-0	Isopropanol	1.4	U	ug/m3	1.4	11/30/11 11:55	11/30/11 22:13	EPA TO-15
591-78-6	Methyl Butyl Ketone	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
78-93-3	Methyl Ethyl Ketone	1.4	U	ug/m3	1.4	11/30/11 11:55	11/30/11 22:13	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.8	U	ug/m3	1.8	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-09-2	Methylene Chloride	1.6	U	ug/m3	1.6	11/30/11 11:55	11/30/11 22:13	EPA TO-15
91-20-3	Naphthalene	2.6	U	ug/m3	2.6	11/30/11 11:55	11/30/11 22:13	EPA TO-15
95-47-6	o-Xylene	2.0	U	ug/m3	2.0	11/30/11 11:55	11/30/11 22:13	EPA TO-15
115-07-1	Propene	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
100-42-5	Styrene	2.0	U	ug/m3	2.0	11/30/11 11:55	11/30/11 22:13	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.1	U	ug/m3	3.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** TB1**Lab ID:** E114801-01**Station ID:****Matrix:** Trip Blank Air**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
109-99-9	Tetrahydrofuran	3.5	U	ug/m3	3.5	11/30/11 11:55	11/30/11 22:13	EPA TO-15
108-88-3	Toluene	1.7	U	ug/m3	1.7	11/30/11 11:55	11/30/11 22:13	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.9	U	ug/m3	1.9	11/30/11 11:55	11/30/11 22:13	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 22:13	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.5	U	ug/m3	2.5	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	2.6	U	ug/m3	2.6	11/30/11 11:55	11/30/11 22:13	EPA TO-15
108-05-4	Vinyl acetate	1.7	U	ug/m3	1.7	11/30/11 11:55	11/30/11 22:13	EPA TO-15
593-60-2	Vinyl bromide	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	11/30/11 11:55	11/30/11 22:13	EPA TO-15
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	20	U	ug/m3	20	11/30/11 11:55	11/30/11 22:13	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID: TB2****Lab ID: E114801-02****Station ID:****Matrix: Trip Blank Air****Date Collected: 11/15/11 8:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.1	U	ug/m3	4.1	11/30/11 11:55	11/30/11 23:04	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.5	U	ug/m3	2.5	11/30/11 11:55	11/30/11 23:04	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	3.2	U	ug/m3	3.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	3.5	U	ug/m3	3.5	11/30/11 11:55	11/30/11 23:04	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	2.5	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-34-3	1,1-Dichloroethane	1.9	U	ug/m3	1.9	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.8	U	ug/m3	1.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	3.3	U	ug/m3	3.3	11/30/11 11:55	11/30/11 23:04	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.3	U	ug/m3	2.3	11/30/11 11:55	11/30/11 23:04	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	3.6	U	ug/m3	3.6	11/30/11 11:55	11/30/11 23:04	EPA TO-15
95-50-1	1,2-Dichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
107-06-2	1,2-Dichloroethane	1.9	U	ug/m3	1.9	11/30/11 11:55	11/30/11 23:04	EPA TO-15
78-87-5	1,2-Dichloropropane	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	3.2	U	ug/m3	3.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
106-99-0	1,3-Butadiene	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 23:04	EPA TO-15
541-73-1	1,3-Dichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
106-46-7	1,4-Dichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
123-91-1	1,4-Dioxane	4.3	U	ug/m3	4.3	11/30/11 11:55	11/30/11 23:04	EPA TO-15
107-05-1	3-Chloropropene	2.8	U	ug/m3	2.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
622-96-8	4-Ethyltoluene	4.8	U	ug/m3	4.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
67-64-1	Acetone	2.6	U	ug/m3	2.6	11/30/11 11:55	11/30/11 23:04	EPA TO-15
107-13-1	Acrylonitrile	0.98	U	ug/m3	0.98	11/30/11 11:55	11/30/11 23:04	EPA TO-15
71-43-2	Benzene	1.5	U	ug/m3	1.5	11/30/11 11:55	11/30/11 23:04	EPA TO-15
100-44-7	Benzyl chloride	2.5	U	ug/m3	2.5	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-27-4	Bromodichloromethane	3.2	U	ug/m3	3.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-25-2	Bromoform	34	U	ug/m3	34	11/30/11 11:55	11/30/11 23:04	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** TB2**Lab ID:** E114801-02**Station ID:****Matrix:** Trip Blank Air**Date Collected:** 11/15/11 8:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	1.8	U	ug/m3	1.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-15-0	Carbon disulfide	1.5	U	ug/m3	1.5	11/30/11 11:55	11/30/11 23:04	EPA TO-15
56-23-5	Carbon Tetrachloride	2.9	U	ug/m3	2.9	11/30/11 11:55	11/30/11 23:04	EPA TO-15
108-90-7	Chlorobenzene	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-00-3	Chloroethane	3.1	U	ug/m3	3.1	11/30/11 11:55	11/30/11 23:04	EPA TO-15
67-66-3	Chloroform	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
74-87-3	Chloromethane	2.4	U	ug/m3	2.4	11/30/11 11:55	11/30/11 23:04	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	1.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 23:04	EPA TO-15
110-82-7	Cyclohexane	1.7	U	ug/m3	1.7	11/30/11 11:55	11/30/11 23:04	EPA TO-15
124-48-1	Dibromochloromethane	4.1	U	ug/m3	4.1	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.3	U	ug/m3	2.3	11/30/11 11:55	11/30/11 23:04	EPA TO-15
141-78-6	Ethyl Acetate	4.3	U	ug/m3	4.3	11/30/11 11:55	11/30/11 23:04	EPA TO-15
100-41-4	Ethyl Benzene	2.0	U	ug/m3	2.0	11/30/11 11:55	11/30/11 23:04	EPA TO-15
142-82-5	Heptane	2.0	U	ug/m3	2.0	11/30/11 11:55	11/30/11 23:04	EPA TO-15
87-68-3	Hexachlorobutadiene	4.9	U	ug/m3	4.9	11/30/11 11:55	11/30/11 23:04	EPA TO-15
110-54-3	Hexane	1.7	U	ug/m3	1.7	11/30/11 11:55	11/30/11 23:04	EPA TO-15
26635-64-3	Isooctane	2.3	U	ug/m3	2.3	11/30/11 11:55	11/30/11 23:04	EPA TO-15
67-63-0	Isopropanol	1.4	U	ug/m3	1.4	11/30/11 11:55	11/30/11 23:04	EPA TO-15
591-78-6	Methyl Butyl Ketone	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
78-93-3	Methyl Ethyl Ketone	1.4	U	ug/m3	1.4	11/30/11 11:55	11/30/11 23:04	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.8	U	ug/m3	1.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-09-2	Methylene Chloride	1.6	U	ug/m3	1.6	11/30/11 11:55	11/30/11 23:04	EPA TO-15
91-20-3	Naphthalene	2.6	U	ug/m3	2.6	11/30/11 11:55	11/30/11 23:04	EPA TO-15
95-47-6	o-Xylene	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 23:04	EPA TO-15
115-07-1	Propene	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 23:04	EPA TO-15
100-42-5	Styrene	2.0	U	ug/m3	2.0	11/30/11 11:55	11/30/11 23:04	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.1	U	ug/m3	3.1	11/30/11 11:55	11/30/11 23:04	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** TB2**Lab ID:** E114801-02**Station ID:****Matrix:** Trip Blank Air**Date Collected:** 11/15/11 8:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
109-99-9	Tetrahydrofuran	3.6	U	ug/m3	3.6	11/30/11 11:55	11/30/11 23:04	EPA TO-15
108-88-3	Toluene	1.8	U	ug/m3	1.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.9	U	ug/m3	1.9	11/30/11 11:55	11/30/11 23:04	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.5	U	ug/m3	2.5	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	2.6	U	ug/m3	2.6	11/30/11 11:55	11/30/11 23:04	EPA TO-15
108-05-4	Vinyl acetate	1.7	U	ug/m3	1.7	11/30/11 11:55	11/30/11 23:04	EPA TO-15
593-60-2	Vinyl bromide	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	20	U	ug/m3	20	11/30/11 11:55	11/30/11 23:04	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG1AANov11**Lab ID:** E114801-03**Station ID:** WPG1**Matrix:** Ambient Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.5	U	ug/m3	4.5	11/30/11 11:55	12/13/11 20:58	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/13/11 20:58	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	3.6	U	ug/m3	3.6	11/30/11 11:55	12/13/11 20:58	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.58	J, Q-2	ug/m3	3.9	11/30/11 11:55	12/13/11 20:58	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-34-3	1,1-Dichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	2.0	11/30/11 11:55	12/13/11 20:58	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	3.7	U	ug/m3	3.7	11/30/11 11:55	12/13/11 20:58	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/13/11 20:58	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	4.0	U	ug/m3	4.0	11/30/11 11:55	12/13/11 20:58	EPA TO-15
95-50-1	1,2-Dichlorobenzene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/13/11 20:58	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/13/11 20:58	EPA TO-15
78-87-5	1,2-Dichloropropane	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 20:58	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 20:58	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 20:58	EPA TO-15
106-99-0	1,3-Butadiene	2.3	U, J, QC-1, QL-1	ug/m3	2.3	11/30/11 11:55	12/13/11 20:58	EPA TO-15
541-73-1	1,3-Dichlorobenzene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/13/11 20:58	EPA TO-15
106-46-7	1,4-Dichlorobenzene	3.2	U	ug/m3	3.2	11/30/11 11:55	12/13/11 20:58	EPA TO-15
123-91-1	1,4-Dioxane	4.8	U	ug/m3	4.8	11/30/11 11:55	12/13/11 20:58	EPA TO-15
107-05-1	3-Chloropropene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/13/11 20:58	EPA TO-15
622-96-8	4-Ethyltoluene	5.4	U	ug/m3	5.4	11/30/11 11:55	12/13/11 20:58	EPA TO-15
67-64-1	Acetone	5.3		ug/m3	2.9	11/30/11 11:55	12/13/11 20:58	EPA TO-15
107-13-1	Acrylonitrile	1.1	U	ug/m3	1.1	11/30/11 11:55	12/13/11 20:58	EPA TO-15
71-43-2	Benzene	0.19	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/13/11 20:58	EPA TO-15
100-44-7	Benzyl chloride	2.7	U	ug/m3	2.7	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-27-4	Bromodichloromethane	3.6	U	ug/m3	3.6	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-25-2	Bromoform	38	U	ug/m3	38	11/30/11 11:55	12/13/11 20:58	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG1AANov11**Lab ID:** E114801-03**Station ID:** WPG1**Matrix:** Ambient Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U, J, QC-1, QL-1	ug/m3	2.0	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-15-0	Carbon disulfide	1.6	U	ug/m3	1.6	11/30/11 11:55	12/13/11 20:58	EPA TO-15
56-23-5	Carbon Tetrachloride	0.48	J, Q-2	ug/m3	3.2	11/30/11 11:55	12/13/11 20:58	EPA TO-15
108-90-7	Chlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-00-3	Chloroethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 20:58	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	2.5	11/30/11 11:55	12/13/11 20:58	EPA TO-15
74-87-3	Chloromethane	1.3	J, Q-2	ug/m3	2.7	11/30/11 11:55	12/13/11 20:58	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	11/30/11 11:55	12/13/11 20:58	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/13/11 20:58	EPA TO-15
110-82-7	Cyclohexane	1.9	U	ug/m3	1.9	11/30/11 11:55	12/13/11 20:58	EPA TO-15
124-48-1	Dibromochloromethane	4.6	U	ug/m3	4.6	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.6		ug/m3	2.6	11/30/11 11:55	12/13/11 20:58	EPA TO-15
141-78-6	Ethyl Acetate	4.8	U	ug/m3	4.8	11/30/11 11:55	12/13/11 20:58	EPA TO-15
100-41-4	Ethyl Benzene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/13/11 20:58	EPA TO-15
142-82-5	Heptane	2.2	U	ug/m3	2.2	11/30/11 11:55	12/13/11 20:58	EPA TO-15
87-68-3	Hexachlorobutadiene	5.4	U	ug/m3	5.4	11/30/11 11:55	12/13/11 20:58	EPA TO-15
110-54-3	Hexane	1.9	U	ug/m3	1.9	11/30/11 11:55	12/13/11 20:58	EPA TO-15
26635-64-3	Isooctane	2.6	U	ug/m3	2.6	11/30/11 11:55	12/13/11 20:58	EPA TO-15
67-63-0	Isopropanol	1.6	U	ug/m3	1.6	11/30/11 11:55	12/13/11 20:58	EPA TO-15
591-78-6	Methyl Butyl Ketone	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 20:58	EPA TO-15
78-93-3	Methyl Ethyl Ketone	0.66	J, Q-2	ug/m3	1.6	11/30/11 11:55	12/13/11 20:58	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 20:58	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	2.0	U	ug/m3	2.0	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-09-2	Methylene Chloride	0.16	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/13/11 20:58	EPA TO-15
91-20-3	Naphthalene	2.9	U	ug/m3	2.9	11/30/11 11:55	12/13/11 20:58	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/13/11 20:58	EPA TO-15
115-07-1	Propene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 20:58	EPA TO-15
100-42-5	Styrene	2.2	U	ug/m3	2.2	11/30/11 11:55	12/13/11 20:58	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG1AANov11**Lab ID:** E114801-03**Station ID:** WPG1**Matrix:** Ambient Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 20:58	EPA TO-15
109-99-9	Tetrahydrofuran	4.0	U	ug/m3	4.0	11/30/11 11:55	12/13/11 20:58	EPA TO-15
108-88-3	Toluene	0.32	J, Q-2	ug/m3	2.0	11/30/11 11:55	12/13/11 20:58	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	11/30/11 11:55	12/13/11 20:58	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/13/11 20:58	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	2.8	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	1.4	J, Q-2	ug/m3	2.9	11/30/11 11:55	12/13/11 20:58	EPA TO-15
108-05-4	Vinyl acetate	1.9	U	ug/m3	1.9	11/30/11 11:55	12/13/11 20:58	EPA TO-15
593-60-2	Vinyl bromide	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-01-4	Vinyl chloride	1.3	U, J, QC-1, QL-1	ug/m3	1.3	11/30/11 11:55	12/13/11 20:58	EPA TO-15
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	100	J	ug/m3		11/30/11 11:55	12/13/11 20:58	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG2AANov11**Lab ID:** E114801-04**Station ID:** WPG2**Matrix:** Ambient Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.5	U	ug/m3	4.5	11/30/11 11:55	12/13/11 22:37	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/13/11 22:37	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 22:37	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	J, Q-2	ug/m3	3.8	11/30/11 11:55	12/13/11 22:37	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-34-3	1,1-Dichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	2.0	11/30/11 11:55	12/13/11 22:37	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	3.7	U	ug/m3	3.7	11/30/11 11:55	12/13/11 22:37	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/13/11 22:37	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	4.0	U	ug/m3	4.0	11/30/11 11:55	12/13/11 22:37	EPA TO-15
95-50-1	1,2-Dichlorobenzene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/13/11 22:37	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/13/11 22:37	EPA TO-15
78-87-5	1,2-Dichloropropane	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 22:37	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
106-99-0	1,3-Butadiene	2.3	U, J, QC-1, QL-1	ug/m3	2.3	11/30/11 11:55	12/13/11 22:37	EPA TO-15
541-73-1	1,3-Dichlorobenzene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/13/11 22:37	EPA TO-15
106-46-7	1,4-Dichlorobenzene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/13/11 22:37	EPA TO-15
123-91-1	1,4-Dioxane	4.8	U	ug/m3	4.8	11/30/11 11:55	12/13/11 22:37	EPA TO-15
107-05-1	3-Chloropropene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/13/11 22:37	EPA TO-15
622-96-8	4-Ethyltoluene	5.4	U	ug/m3	5.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
67-64-1	Acetone	4.9		ug/m3	2.9	11/30/11 11:55	12/13/11 22:37	EPA TO-15
107-13-1	Acrylonitrile	1.1	U	ug/m3	1.1	11/30/11 11:55	12/13/11 22:37	EPA TO-15
71-43-2	Benzene	0.16	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/13/11 22:37	EPA TO-15
100-44-7	Benzyl chloride	2.7	U	ug/m3	2.7	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-27-4	Bromodichloromethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-25-2	Bromoform	38	U	ug/m3	38	11/30/11 11:55	12/13/11 22:37	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG2AANov11**Lab ID:** E114801-04**Station ID:** WPG2**Matrix:** Ambient Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U, J, QL-1, QC-1	ug/m3	2.0	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-15-0	Carbon disulfide	0.11	J, Q-2	ug/m3	1.6	11/30/11 11:55	12/13/11 22:37	EPA TO-15
56-23-5	Carbon Tetrachloride	0.42	J, Q-2	ug/m3	3.2	11/30/11 11:55	12/13/11 22:37	EPA TO-15
108-90-7	Chlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-00-3	Chloroethane	3.4	U	ug/m3	3.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	2.5	11/30/11 11:55	12/13/11 22:37	EPA TO-15
74-87-3	Chloromethane	1.3	J, Q-2	ug/m3	2.6	11/30/11 11:55	12/13/11 22:37	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	11/30/11 11:55	12/13/11 22:37	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/13/11 22:37	EPA TO-15
110-82-7	Cyclohexane	1.9	U	ug/m3	1.9	11/30/11 11:55	12/13/11 22:37	EPA TO-15
124-48-1	Dibromochloromethane	4.6	U	ug/m3	4.6	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.5		ug/m3	2.5	11/30/11 11:55	12/13/11 22:37	EPA TO-15
141-78-6	Ethyl Acetate	4.8	U	ug/m3	4.8	11/30/11 11:55	12/13/11 22:37	EPA TO-15
100-41-4	Ethyl Benzene	2.2	U	ug/m3	2.2	11/30/11 11:55	12/13/11 22:37	EPA TO-15
142-82-5	Heptane	2.2	U	ug/m3	2.2	11/30/11 11:55	12/13/11 22:37	EPA TO-15
87-68-3	Hexachlorobutadiene	5.4	U	ug/m3	5.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
110-54-3	Hexane	1.9	U	ug/m3	1.9	11/30/11 11:55	12/13/11 22:37	EPA TO-15
26635-64-3	Isooctane	2.6	U	ug/m3	2.6	11/30/11 11:55	12/13/11 22:37	EPA TO-15
67-63-0	Isopropanol	1.6	U	ug/m3	1.6	11/30/11 11:55	12/13/11 22:37	EPA TO-15
591-78-6	Methyl Butyl Ketone	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
78-93-3	Methyl Ethyl Ketone	0.74	J, Q-2	ug/m3	1.6	11/30/11 11:55	12/13/11 22:37	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	2.0	U	ug/m3	2.0	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-09-2	Methylene Chloride	0.16	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/13/11 22:37	EPA TO-15
91-20-3	Naphthalene	2.9	U	ug/m3	2.9	11/30/11 11:55	12/13/11 22:37	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/13/11 22:37	EPA TO-15
115-07-1	Propene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
100-42-5	Styrene	2.2	U	ug/m3	2.2	11/30/11 11:55	12/13/11 22:37	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG2AANov11**Lab ID:** E114801-04**Station ID:** WPG2**Matrix:** Ambient Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 22:37	EPA TO-15
109-99-9	Tetrahydrofuran	4.0	U	ug/m3	4.0	11/30/11 11:55	12/13/11 22:37	EPA TO-15
108-88-3	Toluene	0.37	J, Q-2	ug/m3	2.0	11/30/11 11:55	12/13/11 22:37	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	11/30/11 11:55	12/13/11 22:37	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/13/11 22:37	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	2.8	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	1.5	J, Q-2	ug/m3	2.9	11/30/11 11:55	12/13/11 22:37	EPA TO-15
108-05-4	Vinyl acetate	1.9	U	ug/m3	1.9	11/30/11 11:55	12/13/11 22:37	EPA TO-15
593-60-2	Vinyl bromide	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-01-4	Vinyl chloride	1.3	U, J, QL-1, QC-1	ug/m3	1.3	11/30/11 11:55	12/13/11 22:37	EPA TO-15
Tentatively Identified Compounds:								
R4-7505	Acetaldehyde (TIC)	30	NJ	ug/m3		11/30/11 11:55	12/13/11 22:37	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG3CANov11**Lab ID:** E114801-05**Station ID:** WPG3**Matrix:** Crawlspace Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.5	U	ug/m3	4.5	11/30/11 11:55	12/13/11 23:27	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/13/11 23:27	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	3.6	U	ug/m3	3.6	11/30/11 11:55	12/13/11 23:27	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.61	J, Q-2	ug/m3	3.9	11/30/11 11:55	12/13/11 23:27	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-34-3	1,1-Dichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	2.0	11/30/11 11:55	12/13/11 23:27	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	3.7	U	ug/m3	3.7	11/30/11 11:55	12/13/11 23:27	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/13/11 23:27	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	4.0	U	ug/m3	4.0	11/30/11 11:55	12/13/11 23:27	EPA TO-15
95-50-1	1,2-Dichlorobenzene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/13/11 23:27	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/13/11 23:27	EPA TO-15
78-87-5	1,2-Dichloropropane	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 23:27	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 23:27	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 23:27	EPA TO-15
106-99-0	1,3-Butadiene	2.3	U, J, QC-1, QL-1	ug/m3	2.3	11/30/11 11:55	12/13/11 23:27	EPA TO-15
541-73-1	1,3-Dichlorobenzene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/13/11 23:27	EPA TO-15
106-46-7	1,4-Dichlorobenzene	3.2	U	ug/m3	3.2	11/30/11 11:55	12/13/11 23:27	EPA TO-15
123-91-1	1,4-Dioxane	4.8	U	ug/m3	4.8	11/30/11 11:55	12/13/11 23:27	EPA TO-15
107-05-1	3-Chloropropene	0.40	J, Q-2	ug/m3	3.1	11/30/11 11:55	12/13/11 23:27	EPA TO-15
622-96-8	4-Ethyltoluene	5.4	U	ug/m3	5.4	11/30/11 11:55	12/13/11 23:27	EPA TO-15
67-64-1	Acetone	8.5		ug/m3	2.9	11/30/11 11:55	12/13/11 23:27	EPA TO-15
107-13-1	Acrylonitrile	1.1	U	ug/m3	1.1	11/30/11 11:55	12/13/11 23:27	EPA TO-15
71-43-2	Benzene	0.21	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/13/11 23:27	EPA TO-15
100-44-7	Benzyl chloride	2.7	U	ug/m3	2.7	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-27-4	Bromodichloromethane	3.6	U	ug/m3	3.6	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-25-2	Bromoform	38	U	ug/m3	38	11/30/11 11:55	12/13/11 23:27	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG3CANov11**Lab ID:** E114801-05**Station ID:** WPG3**Matrix:** Crawlspace Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U, J, QC-1, QL-1	ug/m3	2.0	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-15-0	Carbon disulfide	0.13	J, Q-2	ug/m3	1.6	11/30/11 11:55	12/13/11 23:27	EPA TO-15
56-23-5	Carbon Tetrachloride	0.48	J, Q-2	ug/m3	3.2	11/30/11 11:55	12/13/11 23:27	EPA TO-15
108-90-7	Chlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-00-3	Chloroethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 23:27	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	2.5	11/30/11 11:55	12/13/11 23:27	EPA TO-15
74-87-3	Chloromethane	1.5	J, Q-2	ug/m3	2.7	11/30/11 11:55	12/13/11 23:27	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	11/30/11 11:55	12/13/11 23:27	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/13/11 23:27	EPA TO-15
110-82-7	Cyclohexane	1.9	U	ug/m3	1.9	11/30/11 11:55	12/13/11 23:27	EPA TO-15
124-48-1	Dibromochloromethane	4.6	U	ug/m3	4.6	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.8		ug/m3	2.6	11/30/11 11:55	12/13/11 23:27	EPA TO-15
141-78-6	Ethyl Acetate	4.8	U	ug/m3	4.8	11/30/11 11:55	12/13/11 23:27	EPA TO-15
100-41-4	Ethyl Benzene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/13/11 23:27	EPA TO-15
142-82-5	Heptane	2.2	U	ug/m3	2.2	11/30/11 11:55	12/13/11 23:27	EPA TO-15
87-68-3	Hexachlorobutadiene	5.4	U	ug/m3	5.4	11/30/11 11:55	12/13/11 23:27	EPA TO-15
110-54-3	Hexane	0.16	J, Q-2	ug/m3	1.9	11/30/11 11:55	12/13/11 23:27	EPA TO-15
26635-64-3	Isooctane	2.6	U	ug/m3	2.6	11/30/11 11:55	12/13/11 23:27	EPA TO-15
67-63-0	Isopropanol	1.6	U	ug/m3	1.6	11/30/11 11:55	12/13/11 23:27	EPA TO-15
591-78-6	Methyl Butyl Ketone	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 23:27	EPA TO-15
78-93-3	Methyl Ethyl Ketone	0.93	J, Q-2	ug/m3	1.6	11/30/11 11:55	12/13/11 23:27	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 23:27	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	2.0	U	ug/m3	2.0	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-09-2	Methylene Chloride	0.19	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/13/11 23:27	EPA TO-15
91-20-3	Naphthalene	2.9	U	ug/m3	2.9	11/30/11 11:55	12/13/11 23:27	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/13/11 23:27	EPA TO-15
115-07-1	Propene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 23:27	EPA TO-15
100-42-5	Styrene	2.2	U	ug/m3	2.2	11/30/11 11:55	12/13/11 23:27	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG3CANov11**Lab ID:** E114801-05**Station ID:** WPG3**Matrix:** Crawlspace Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 23:27	EPA TO-15
109-99-9	Tetrahydrofuran	4.0	U	ug/m3	4.0	11/30/11 11:55	12/13/11 23:27	EPA TO-15
108-88-3	Toluene	0.43	J, Q-2	ug/m3	2.0	11/30/11 11:55	12/13/11 23:27	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	11/30/11 11:55	12/13/11 23:27	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/13/11 23:27	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	2.8	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	1.6	J, Q-2	ug/m3	2.9	11/30/11 11:55	12/13/11 23:27	EPA TO-15
108-05-4	Vinyl acetate	1.9	U	ug/m3	1.9	11/30/11 11:55	12/13/11 23:27	EPA TO-15
593-60-2	Vinyl bromide	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-01-4	Vinyl chloride	1.3	U, J, QC-1, QL-1	ug/m3	1.3	11/30/11 11:55	12/13/11 23:27	EPA TO-15
Tentatively Identified Compounds:								
R4-7502	Butane (TIC)	50	NJ	ug/m3		11/30/11 11:55	12/13/11 23:27	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG3SCANov11**Lab ID:** E114801-06**Station ID:** WPG3**Matrix:** Crawlspace Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.5	U	ug/m3	4.5	11/30/11 11:55	12/14/11 0:18	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 0:18	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	3.6	U	ug/m3	3.6	11/30/11 11:55	12/14/11 0:18	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.48	J, Q-2	ug/m3	3.9	11/30/11 11:55	12/14/11 0:18	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-34-3	1,1-Dichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	2.0	11/30/11 11:55	12/14/11 0:18	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	3.7	U	ug/m3	3.7	11/30/11 11:55	12/14/11 0:18	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/14/11 0:18	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	4.0	U	ug/m3	4.0	11/30/11 11:55	12/14/11 0:18	EPA TO-15
95-50-1	1,2-Dichlorobenzene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/14/11 0:18	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 0:18	EPA TO-15
78-87-5	1,2-Dichloropropane	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 0:18	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	3.6	U	ug/m3	3.6	11/30/11 11:55	12/14/11 0:18	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/14/11 0:18	EPA TO-15
106-99-0	1,3-Butadiene	2.4	U, J, QC-1, QL-1	ug/m3	2.4	11/30/11 11:55	12/14/11 0:18	EPA TO-15
541-73-1	1,3-Dichlorobenzene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/14/11 0:18	EPA TO-15
106-46-7	1,4-Dichlorobenzene	3.2	U	ug/m3	3.2	11/30/11 11:55	12/14/11 0:18	EPA TO-15
123-91-1	1,4-Dioxane	4.8	U	ug/m3	4.8	11/30/11 11:55	12/14/11 0:18	EPA TO-15
107-05-1	3-Chloropropene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/14/11 0:18	EPA TO-15
622-96-8	4-Ethyltoluene	5.4	U	ug/m3	5.4	11/30/11 11:55	12/14/11 0:18	EPA TO-15
67-64-1	Acetone	14		ug/m3	2.9	11/30/11 11:55	12/14/11 0:18	EPA TO-15
107-13-1	Acrylonitrile	1.1	U	ug/m3	1.1	11/30/11 11:55	12/14/11 0:18	EPA TO-15
71-43-2	Benzene	0.13	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 0:18	EPA TO-15
100-44-7	Benzyl chloride	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-27-4	Bromodichloromethane	3.6	U	ug/m3	3.6	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-25-2	Bromoform	38	U	ug/m3	38	11/30/11 11:55	12/14/11 0:18	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG3SCANov11**Lab ID:** E114801-06**Station ID:** WPG3**Matrix:** Crawlspace Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U, J, QC-1, QL-1	ug/m3	2.0	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-15-0	Carbon disulfide	0.86	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 0:18	EPA TO-15
56-23-5	Carbon Tetrachloride	0.48	J, Q-2	ug/m3	3.2	11/30/11 11:55	12/14/11 0:18	EPA TO-15
108-90-7	Chlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-00-3	Chloroethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/14/11 0:18	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	2.5	11/30/11 11:55	12/14/11 0:18	EPA TO-15
74-87-3	Chloromethane	1.9	J, Q-2	ug/m3	2.7	11/30/11 11:55	12/14/11 0:18	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 0:18	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 0:18	EPA TO-15
110-82-7	Cyclohexane	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 0:18	EPA TO-15
124-48-1	Dibromochloromethane	4.6	U	ug/m3	4.6	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.5	J, Q-2	ug/m3	2.6	11/30/11 11:55	12/14/11 0:18	EPA TO-15
141-78-6	Ethyl Acetate	4.8	U	ug/m3	4.8	11/30/11 11:55	12/14/11 0:18	EPA TO-15
100-41-4	Ethyl Benzene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/14/11 0:18	EPA TO-15
142-82-5	Heptane	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 0:18	EPA TO-15
87-68-3	Hexachlorobutadiene	5.5	U	ug/m3	5.5	11/30/11 11:55	12/14/11 0:18	EPA TO-15
110-54-3	Hexane	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 0:18	EPA TO-15
26635-64-3	Isooctane	2.6	U	ug/m3	2.6	11/30/11 11:55	12/14/11 0:18	EPA TO-15
67-63-0	Isopropanol	1.3	J, QC-2, QL-2, QR-2, Q-2	ug/m3	1.6	11/30/11 11:55	12/14/11 0:18	EPA TO-15
591-78-6	Methyl Butyl Ketone	0.35	J, Q-2	ug/m3	2.4	11/30/11 11:55	12/14/11 0:18	EPA TO-15
78-93-3	Methyl Ethyl Ketone	1.6		ug/m3	1.6	11/30/11 11:55	12/14/11 0:18	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 0:18	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-09-2	Methylene Chloride	0.16	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 0:18	EPA TO-15
91-20-3	Naphthalene	2.9	U	ug/m3	2.9	11/30/11 11:55	12/14/11 0:18	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/14/11 0:18	EPA TO-15
115-07-1	Propene	1.1	J, Q-2	ug/m3	2.4	11/30/11 11:55	12/14/11 0:18	EPA TO-15
100-42-5	Styrene	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 0:18	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG3SCANov11**Lab ID:** E114801-06**Station ID:** WPG3**Matrix:** Crawlspace Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	3.5	11/30/11 11:55	12/14/11 0:18	EPA TO-15
109-99-9	Tetrahydrofuran	4.0	U	ug/m3	4.0	11/30/11 11:55	12/14/11 0:18	EPA TO-15
108-88-3	Toluene	0.43	J, Q-2	ug/m3	2.0	11/30/11 11:55	12/14/11 0:18	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 0:18	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/14/11 0:18	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	1.4	J, Q-2	ug/m3	2.9	11/30/11 11:55	12/14/11 0:18	EPA TO-15
108-05-4	Vinyl acetate	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 0:18	EPA TO-15
593-60-2	Vinyl bromide	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-01-4	Vinyl chloride	1.3	U, J, QC-1, QL-1	ug/m3	1.3	11/30/11 11:55	12/14/11 0:18	EPA TO-15
Tentatively Identified Compounds:								
R4-7505	Acetaldehyde (TIC)	40	NJ	ug/m3		11/30/11 11:55	12/14/11 0:18	EPA TO-15
R4-7502	Butane (TIC)	30	NJ	ug/m3		11/30/11 11:55	12/14/11 0:18	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG4SGNov11**Lab ID:** E114801-07**Station ID:** WPG4**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.35	J, Q-2	ug/m3	3.5	11/30/11 11:55	12/14/11 1:07	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 1:07	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.59	J, Q-2	ug/m3	3.0	11/30/11 11:55	12/14/11 1:07	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-34-3	1,1-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.5	U	ug/m3	1.5	11/30/11 11:55	12/14/11 1:07	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.18	J, Q-2	ug/m3	1.9	11/30/11 11:55	12/14/11 1:07	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	3.1	U	ug/m3	3.1	11/30/11 11:55	12/14/11 1:07	EPA TO-15
95-50-1	1,2-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 1:07	EPA TO-15
107-06-2	1,2-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:07	EPA TO-15
78-87-5	1,2-Dichloropropane	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 1:07	EPA TO-15
106-99-0	1,3-Butadiene	1.8	U, J, QC-1, QL-1	ug/m3	1.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
541-73-1	1,3-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 1:07	EPA TO-15
106-46-7	1,4-Dichlorobenzene	0.57	J, Q-2	ug/m3	2.4	11/30/11 11:55	12/14/11 1:07	EPA TO-15
123-91-1	1,4-Dioxane	3.7	U	ug/m3	3.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15
107-05-1	3-Chloropropene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 1:07	EPA TO-15
622-96-8	4-Ethyltoluene	4.1	U	ug/m3	4.1	11/30/11 11:55	12/14/11 1:07	EPA TO-15
67-64-1	Acetone	32		ug/m3	11	11/30/11 11:55	12/01/11 23:36	EPA TO-15
107-13-1	Acrylonitrile	0.18	J, Q-2	ug/m3	0.84	11/30/11 11:55	12/14/11 1:07	EPA TO-15
71-43-2	Benzene	2.5		ug/m3	1.3	11/30/11 11:55	12/14/11 1:07	EPA TO-15
100-44-7	Benzyl chloride	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-27-4	Bromodichloromethane	0.78	J, Q-2	ug/m3	2.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-25-2	Bromoform	29	U	ug/m3	29	11/30/11 11:55	12/14/11 1:07	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG4SGNov11**Lab ID:** E114801-07**Station ID:** WPG4**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	1.5	U, J, QC-1, QL-1	ug/m3	1.5	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-15-0	Carbon disulfide	5.8		ug/m3	1.3	11/30/11 11:55	12/14/11 1:07	EPA TO-15
56-23-5	Carbon Tetrachloride	0.24	J, Q-2	ug/m3	2.5	11/30/11 11:55	12/14/11 1:07	EPA TO-15
108-90-7	Chlorobenzene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-00-3	Chloroethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15
67-66-3	Chloroform	8.6		ug/m3	1.9	11/30/11 11:55	12/14/11 1:07	EPA TO-15
74-87-3	Chloromethane	2.0	U	ug/m3	2.0	11/30/11 11:55	12/14/11 1:07	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:07	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
110-82-7	Cyclohexane	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 1:07	EPA TO-15
124-48-1	Dibromochloromethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.9		ug/m3	2.0	11/30/11 11:55	12/14/11 1:07	EPA TO-15
141-78-6	Ethyl Acetate	3.7	U	ug/m3	3.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15
100-41-4	Ethyl Benzene	0.31	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15
142-82-5	Heptane	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15
87-68-3	Hexachlorobutadiene	4.2	U	ug/m3	4.2	11/30/11 11:55	12/14/11 1:07	EPA TO-15
110-54-3	Hexane	0.63	J, Q-2	ug/m3	1.4	11/30/11 11:55	12/14/11 1:07	EPA TO-15
26635-64-3	Isooctane	2.0	U	ug/m3	2.0	11/30/11 11:55	12/14/11 1:07	EPA TO-15
67-63-0	Isopropanol	7.2	J, QL-2, QC-2	ug/m3	1.2	11/30/11 11:55	12/14/11 1:07	EPA TO-15
591-78-6	Methyl Butyl Ketone	14		ug/m3	1.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
78-93-3	Methyl Ethyl Ketone	4.8		ug/m3	1.2	11/30/11 11:55	12/14/11 1:07	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	1.6	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-09-2	Methylene Chloride	1.3	U	ug/m3	1.3	11/30/11 11:55	12/14/11 1:07	EPA TO-15
91-20-3	Naphthalene	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 1:07	EPA TO-15
95-47-6	o-Xylene	0.16	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
115-07-1	Propene	3.6		ug/m3	1.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
100-42-5	Styrene	0.18	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG4SGNov11**Lab ID:** E114801-07**Station ID:** WPG4**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethylene (Tetrachloroethylene)	2.0	J, Q-2	ug/m3	2.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15
109-99-9	Tetrahydrofuran	3.1	U	ug/m3	3.1	11/30/11 11:55	12/14/11 1:07	EPA TO-15
108-88-3	Toluene	1.1	J, Q-2	ug/m3	1.5	11/30/11 11:55	12/14/11 1:07	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:07	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 1:07	EPA TO-15
79-01-6	Trichloroethylene (Trichloroethylene)	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	4.3		ug/m3	2.2	11/30/11 11:55	12/14/11 1:07	EPA TO-15
108-05-4	Vinyl acetate	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 1:07	EPA TO-15
593-60-2	Vinyl bromide	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-01-4	Vinyl chloride	1.0	U, J, QC-1, QL-1	ug/m3	1.0	11/30/11 11:55	12/14/11 1:07	EPA TO-15

Tentatively Identified Compounds:

R4-7505	Acetaldehyde (TIC)	200	NJ	ug/m3	11/30/11 11:55	12/14/11 1:07	EPA TO-15
R4-7502	Butane (TIC)	100	NJ	ug/m3	11/30/11 11:55	12/14/11 1:07	EPA TO-15
R4-7531	Butanol (TIC)	400	NJ	ug/m3	11/30/11 11:55	12/14/11 1:07	EPA TO-15
R4-8000122	Dichlorofluoroethane (TIC)	100	NJ	ug/m3	11/30/11 11:55	12/14/11 1:07	EPA TO-15
R4-7501	Methylpropene (TIC)	40	NJ	ug/m3	11/30/11 11:55	12/14/11 1:07	EPA TO-15
R4-7509	Pentane (TIC)	20	NJ	ug/m3	11/30/11 11:55	12/14/11 1:07	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG4SSGNov11**Lab ID:** E114801-08**Station ID:** WPG4**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.32	J, Q-2	ug/m3	3.4	11/30/11 11:55	12/14/11 1:58	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 1:58	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 1:58	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.58	J, Q-2	ug/m3	2.9	11/30/11 11:55	12/14/11 1:58	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-34-3	1,1-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.5	U	ug/m3	1.5	11/30/11 11:55	12/14/11 1:58	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 1:58	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.20	J, Q-2	ug/m3	1.9	11/30/11 11:55	12/14/11 1:58	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	3.0	U	ug/m3	3.0	11/30/11 11:55	12/14/11 1:58	EPA TO-15
95-50-1	1,2-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 1:58	EPA TO-15
107-06-2	1,2-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:58	EPA TO-15
78-87-5	1,2-Dichloropropane	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 1:58	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 1:58	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 1:58	EPA TO-15
106-99-0	1,3-Butadiene	1.8	U, J, QC-1, QL-1	ug/m3	1.8	11/30/11 11:55	12/14/11 1:58	EPA TO-15
541-73-1	1,3-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 1:58	EPA TO-15
106-46-7	1,4-Dichlorobenzene	0.54	J, Q-2	ug/m3	2.4	11/30/11 11:55	12/14/11 1:58	EPA TO-15
123-91-1	1,4-Dioxane	3.6	U	ug/m3	3.6	11/30/11 11:55	12/14/11 1:58	EPA TO-15
107-05-1	3-Chloropropene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/14/11 1:58	EPA TO-15
622-96-8	4-Ethyltoluene	4.1	U	ug/m3	4.1	11/30/11 11:55	12/14/11 1:58	EPA TO-15
67-64-1	Acetone	35		ug/m3	11	11/30/11 11:55	12/02/11 0:24	EPA TO-15
107-13-1	Acrylonitrile	0.18	J, Q-2	ug/m3	0.83	11/30/11 11:55	12/14/11 1:58	EPA TO-15
71-43-2	Benzene	2.3		ug/m3	1.3	11/30/11 11:55	12/14/11 1:58	EPA TO-15
100-44-7	Benzyl chloride	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-27-4	Bromodichloromethane	0.72	J, Q-2	ug/m3	2.7	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-25-2	Bromoform	29	U	ug/m3	29	11/30/11 11:55	12/14/11 1:58	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG4SSGNov11**Lab ID:** E114801-08**Station ID:** WPG4**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	1.5	U, J, QC-1, QL-1	ug/m3	1.5	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-15-0	Carbon disulfide	5.9		ug/m3	1.2	11/30/11 11:55	12/14/11 1:58	EPA TO-15
56-23-5	Carbon Tetrachloride	0.28	J, Q-2	ug/m3	2.4	11/30/11 11:55	12/14/11 1:58	EPA TO-15
108-90-7	Chlorobenzene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-00-3	Chloroethane	2.6	U	ug/m3	2.6	11/30/11 11:55	12/14/11 1:58	EPA TO-15
67-66-3	Chloroform	8.2		ug/m3	1.9	11/30/11 11:55	12/14/11 1:58	EPA TO-15
74-87-3	Chloromethane	2.0	U	ug/m3	2.0	11/30/11 11:55	12/14/11 1:58	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:58	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 1:58	EPA TO-15
110-82-7	Cyclohexane	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 1:58	EPA TO-15
124-48-1	Dibromochloromethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.9		ug/m3	1.9	11/30/11 11:55	12/14/11 1:58	EPA TO-15
141-78-6	Ethyl Acetate	3.6	U	ug/m3	3.6	11/30/11 11:55	12/14/11 1:58	EPA TO-15
100-41-4	Ethyl Benzene	0.32	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 1:58	EPA TO-15
142-82-5	Heptane	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 1:58	EPA TO-15
87-68-3	Hexachlorobutadiene	4.1	U	ug/m3	4.1	11/30/11 11:55	12/14/11 1:58	EPA TO-15
110-54-3	Hexane	0.50	J, Q-2	ug/m3	1.4	11/30/11 11:55	12/14/11 1:58	EPA TO-15
26635-64-3	Isooctane	2.0	U	ug/m3	2.0	11/30/11 11:55	12/14/11 1:58	EPA TO-15
67-63-0	Isopropanol	7.3	J, QC-2, QL-2	ug/m3	1.2	11/30/11 11:55	12/14/11 1:58	EPA TO-15
591-78-6	Methyl Butyl Ketone	15		ug/m3	1.8	11/30/11 11:55	12/14/11 1:58	EPA TO-15
78-93-3	Methyl Ethyl Ketone	5.2		ug/m3	1.2	11/30/11 11:55	12/14/11 1:58	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	1.6	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 1:58	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-09-2	Methylene Chloride	1.3	U	ug/m3	1.3	11/30/11 11:55	12/14/11 1:58	EPA TO-15
91-20-3	Naphthalene	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 1:58	EPA TO-15
95-47-6	o-Xylene	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 1:58	EPA TO-15
115-07-1	Propene	3.8		ug/m3	1.8	11/30/11 11:55	12/14/11 1:58	EPA TO-15
100-42-5	Styrene	0.16	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 1:58	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG4SSGNov11**Lab ID:** E114801-08**Station ID:** WPG4**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethene (Tetrachloroethylene)	1.9	J, Q-2	ug/m3	2.6	11/30/11 11:55	12/14/11 1:58	EPA TO-15
109-99-9	Tetrahydrofuran	0.10	J, Q-2	ug/m3	3.0	11/30/11 11:55	12/14/11 1:58	EPA TO-15
108-88-3	Toluene	1.1	J, Q-2	ug/m3	1.5	11/30/11 11:55	12/14/11 1:58	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:58	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 1:58	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	4.1		ug/m3	2.2	11/30/11 11:55	12/14/11 1:58	EPA TO-15
108-05-4	Vinyl acetate	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 1:58	EPA TO-15
593-60-2	Vinyl bromide	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-01-4	Vinyl chloride	0.99	U, J, QC-1, QL-1	ug/m3	0.99	11/30/11 11:55	12/14/11 1:58	EPA TO-15

Tentatively Identified Compounds:

R4-7505	Acetaldehyde (TIC)	100	NJ	ug/m3	11/30/11 11:55	12/14/11 1:58	EPA TO-15
R4-7502	Butane (TIC)	100	NJ	ug/m3	11/30/11 11:55	12/14/11 1:58	EPA TO-15
R4-7531	Butanol (TIC)	400	NJ	ug/m3	11/30/11 11:55	12/14/11 1:58	EPA TO-15
R4-8000122	Dichlorofluoroethane (TIC)	90	NJ	ug/m3	11/30/11 11:55	12/14/11 1:58	EPA TO-15
R4-7507	Ethanol (TIC)	20	NJ	ug/m3	11/30/11 11:55	12/14/11 1:58	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG5SGNov11**Lab ID:** E114801-09**Station ID:** WPG5**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.49	J, Q-2	ug/m3	3.4	11/30/11 11:55	12/14/11 2:48	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 2:48	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 2:48	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.55	J, Q-2	ug/m3	2.9	11/30/11 11:55	12/14/11 2:48	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-34-3	1,1-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.5	U	ug/m3	1.5	11/30/11 11:55	12/14/11 2:48	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 2:48	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.26	J, Q-2	ug/m3	1.9	11/30/11 11:55	12/14/11 2:48	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	3.1	U	ug/m3	3.1	11/30/11 11:55	12/14/11 2:48	EPA TO-15
95-50-1	1,2-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 2:48	EPA TO-15
107-06-2	1,2-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 2:48	EPA TO-15
78-87-5	1,2-Dichloropropane	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 2:48	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 2:48	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 2:48	EPA TO-15
106-99-0	1,3-Butadiene	1.8	U, J, QC-1, QL-1	ug/m3	1.8	11/30/11 11:55	12/14/11 2:48	EPA TO-15
541-73-1	1,3-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 2:48	EPA TO-15
106-46-7	1,4-Dichlorobenzene	3.8		ug/m3	2.4	11/30/11 11:55	12/14/11 2:48	EPA TO-15
123-91-1	1,4-Dioxane	3.6	U	ug/m3	3.6	11/30/11 11:55	12/14/11 2:48	EPA TO-15
107-05-1	3-Chloropropene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 2:48	EPA TO-15
622-96-8	4-Ethyltoluene	4.1	U	ug/m3	4.1	11/30/11 11:55	12/14/11 2:48	EPA TO-15
67-64-1	Acetone	40		ug/m3	11	11/30/11 11:55	12/02/11 1:12	EPA TO-15
107-13-1	Acrylonitrile	0.14	J, Q-2	ug/m3	0.83	11/30/11 11:55	12/14/11 2:48	EPA TO-15
71-43-2	Benzene	1.1	J, Q-2	ug/m3	1.3	11/30/11 11:55	12/14/11 2:48	EPA TO-15
100-44-7	Benzyl chloride	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-27-4	Bromodichloromethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-25-2	Bromoform	29	U	ug/m3	29	11/30/11 11:55	12/14/11 2:48	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG5SGNov11**Lab ID:** E114801-09**Station ID:** WPG5**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	1.5	U, J, QC-1, QL-1	ug/m3	1.5	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-15-0	Carbon disulfide	2.1		ug/m3	1.3	11/30/11 11:55	12/14/11 2:48	EPA TO-15
56-23-5	Carbon Tetrachloride	0.26	J, Q-2	ug/m3	2.5	11/30/11 11:55	12/14/11 2:48	EPA TO-15
108-90-7	Chlorobenzene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-00-3	Chloroethane	2.6	U	ug/m3	2.6	11/30/11 11:55	12/14/11 2:48	EPA TO-15
67-66-3	Chloroform	1.3	J, Q-2	ug/m3	1.9	11/30/11 11:55	12/14/11 2:48	EPA TO-15
74-87-3	Chloromethane	0.22	J, Q-2	ug/m3	2.0	11/30/11 11:55	12/14/11 2:48	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 2:48	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 2:48	EPA TO-15
110-82-7	Cyclohexane	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 2:48	EPA TO-15
124-48-1	Dibromochloromethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.7		ug/m3	1.9	11/30/11 11:55	12/14/11 2:48	EPA TO-15
141-78-6	Ethyl Acetate	3.6	U	ug/m3	3.6	11/30/11 11:55	12/14/11 2:48	EPA TO-15
100-41-4	Ethyl Benzene	0.36	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 2:48	EPA TO-15
142-82-5	Heptane	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 2:48	EPA TO-15
87-68-3	Hexachlorobutadiene	4.2	U	ug/m3	4.2	11/30/11 11:55	12/14/11 2:48	EPA TO-15
110-54-3	Hexane	0.45	J, Q-2	ug/m3	1.4	11/30/11 11:55	12/14/11 2:48	EPA TO-15
26635-64-3	Isooctane	2.0	U	ug/m3	2.0	11/30/11 11:55	12/14/11 2:48	EPA TO-15
67-63-0	Isopropanol	17	J, QC-2, QL-2	ug/m3	1.2	11/30/11 11:55	12/14/11 2:48	EPA TO-15
591-78-6	Methyl Butyl Ketone	4.2		ug/m3	1.8	11/30/11 11:55	12/14/11 2:48	EPA TO-15
78-93-3	Methyl Ethyl Ketone	8.4		ug/m3	1.2	11/30/11 11:55	12/14/11 2:48	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	0.65	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 2:48	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-09-2	Methylene Chloride	1.3	U	ug/m3	1.3	11/30/11 11:55	12/14/11 2:48	EPA TO-15
91-20-3	Naphthalene	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 2:48	EPA TO-15
95-47-6	o-Xylene	0.22	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 2:48	EPA TO-15
115-07-1	Propene	4.6		ug/m3	1.8	11/30/11 11:55	12/14/11 2:48	EPA TO-15
100-42-5	Styrene	0.18	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 2:48	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG5SGNov11**Lab ID:** E114801-09**Station ID:** WPG5**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethene (Tetrachloroethylene)	9.8		ug/m3	2.7	11/30/11 11:55	12/14/11 2:48	EPA TO-15
109-99-9	Tetrahydrofuran	3.0	U	ug/m3	3.0	11/30/11 11:55	12/14/11 2:48	EPA TO-15
108-88-3	Toluene	2.0		ug/m3	1.5	11/30/11 11:55	12/14/11 2:48	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 2:48	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 2:48	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	1.5	J, Q-2	ug/m3	2.2	11/30/11 11:55	12/14/11 2:48	EPA TO-15
108-05-4	Vinyl acetate	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 2:48	EPA TO-15
593-60-2	Vinyl bromide	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-01-4	Vinyl chloride	0.99	U, J, QC-1, QL-1	ug/m3	0.99	11/30/11 11:55	12/14/11 2:48	EPA TO-15
Tentatively Identified Compounds:								
R4-7502	Butane (TIC)	20	NJ	ug/m3		11/30/11 11:55	12/14/11 2:48	EPA TO-15
R4-8000122	Dichlorofluoroethane (TIC)	90	NJ	ug/m3		11/30/11 11:55	12/14/11 2:48	EPA TO-15



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D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG6SGNov11**Lab ID:** E114801-10**Station ID:** WPG6**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.0		ug/m3	3.7	11/30/11 11:55	12/14/11 3:38	EPA TO-15
71-55-6	1,1,1-Trichloroethane	0.22	J, Q-2	ug/m3	2.3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	2.9	U	ug/m3	2.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.58	J, Q-2	ug/m3	3.1	11/30/11 11:55	12/14/11 3:38	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.3	U	ug/m3	2.3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-34-3	1,1-Dichloroethane	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.32	J, Q-2	ug/m3	1.6	11/30/11 11:55	12/14/11 3:38	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	3.0	U	ug/m3	3.0	11/30/11 11:55	12/14/11 3:38	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	3.8		ug/m3	2.0	11/30/11 11:55	12/14/11 3:38	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	3.3	U	ug/m3	3.3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
95-50-1	1,2-Dichlorobenzene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/14/11 3:38	EPA TO-15
107-06-2	1,2-Dichloroethane	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 3:38	EPA TO-15
78-87-5	1,2-Dichloropropane	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	2.9	U	ug/m3	2.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	2.0		ug/m3	2.0	11/30/11 11:55	12/14/11 3:38	EPA TO-15
106-99-0	1,3-Butadiene	1.9	U, J, QC-1, QL-1	ug/m3	1.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
541-73-1	1,3-Dichlorobenzene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/14/11 3:38	EPA TO-15
106-46-7	1,4-Dichlorobenzene	2.1	J, Q-2	ug/m3	2.6	11/30/11 11:55	12/14/11 3:38	EPA TO-15
123-91-1	1,4-Dioxane	3.9	U	ug/m3	3.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
107-05-1	3-Chloropropene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/14/11 3:38	EPA TO-15
622-96-8	4-Ethyltoluene	4.4	U	ug/m3	4.4	11/30/11 11:55	12/14/11 3:38	EPA TO-15
67-64-1	Acetone	48		ug/m3	12	11/30/11 11:55	12/02/11 2:00	EPA TO-15
107-13-1	Acrylonitrile	0.17	J, Q-2	ug/m3	0.88	11/30/11 11:55	12/14/11 3:38	EPA TO-15
71-43-2	Benzene	4.0		ug/m3	1.4	11/30/11 11:55	12/14/11 3:38	EPA TO-15
100-44-7	Benzyl chloride	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-27-4	Bromodichloromethane	2.9	U	ug/m3	2.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-25-2	Bromoform	31	U	ug/m3	31	11/30/11 11:55	12/14/11 3:38	EPA TO-15



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG6SGNov11**Lab ID:** E114801-10**Station ID:** WPG6**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	1.6	U, J, QC-1, QL-1	ug/m3	1.6	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-15-0	Carbon disulfide	3.3		ug/m3	1.3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
56-23-5	Carbon Tetrachloride	0.84	J, Q-2	ug/m3	2.6	11/30/11 11:55	12/14/11 3:38	EPA TO-15
108-90-7	Chlorobenzene	0.19	J, Q-2	ug/m3	1.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-00-3	Chloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 3:38	EPA TO-15
67-66-3	Chloroform	38		ug/m3	2.0	11/30/11 11:55	12/14/11 3:38	EPA TO-15
74-87-3	Chloromethane	0.28	J, Q-2	ug/m3	2.2	11/30/11 11:55	12/14/11 3:38	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 3:38	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
110-82-7	Cyclohexane	5.7		ug/m3	1.5	11/30/11 11:55	12/14/11 3:38	EPA TO-15
124-48-1	Dibromochloromethane	3.7	U	ug/m3	3.7	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.8		ug/m3	2.1	11/30/11 11:55	12/14/11 3:38	EPA TO-15
141-78-6	Ethyl Acetate	3.9	U	ug/m3	3.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
100-41-4	Ethyl Benzene	1.7	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 3:38	EPA TO-15
142-82-5	Heptane	5.3		ug/m3	1.8	11/30/11 11:55	12/14/11 3:38	EPA TO-15
87-68-3	Hexachlorobutadiene	4.4	U	ug/m3	4.4	11/30/11 11:55	12/14/11 3:38	EPA TO-15
110-54-3	Hexane	1.1	J, Q-2	ug/m3	1.5	11/30/11 11:55	12/14/11 3:38	EPA TO-15
26635-64-3	Isooctane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 3:38	EPA TO-15
67-63-0	Isopropanol	1.7	J, QC-2, QL-2, QR-2	ug/m3	1.3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
591-78-6	Methyl Butyl Ketone	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
78-93-3	Methyl Ethyl Ketone	10		ug/m3	1.3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-09-2	Methylene Chloride	0.19	J, Q-2	ug/m3	1.4	11/30/11 11:55	12/14/11 3:38	EPA TO-15
91-20-3	Naphthalene	33		ug/m3	12	11/30/11 11:55	12/02/11 2:00	EPA TO-15
95-47-6	o-Xylene	2.1		ug/m3	1.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
115-07-1	Propene	7.8		ug/m3	1.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
100-42-5	Styrene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 3:38	EPA TO-15



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG6SGNov11**Lab ID:** E114801-10**Station ID:** WPG6**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethene (Tetrachloroethylene)	4.2		ug/m3	2.8	11/30/11 11:55	12/14/11 3:38	EPA TO-15
109-99-9	Tetrahydrofuran	0.13	J, Q-2	ug/m3	3.2	11/30/11 11:55	12/14/11 3:38	EPA TO-15
108-88-3	Toluene	18		ug/m3	1.6	11/30/11 11:55	12/14/11 3:38	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 3:38	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	2.0	U	ug/m3	2.0	11/30/11 11:55	12/14/11 3:38	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	7.8		ug/m3	2.3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	2.2	J, Q-2	ug/m3	2.3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
108-05-4	Vinyl acetate	1.5	U	ug/m3	1.5	11/30/11 11:55	12/14/11 3:38	EPA TO-15
593-60-2	Vinyl bromide	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-01-4	Vinyl chloride	1.1	U, J, QC-1, QL-1	ug/m3	1.1	11/30/11 11:55	12/14/11 3:38	EPA TO-15

Tentatively Identified Compounds:

R4-7505	Acetaldehyde (TIC)	900	NJ	ug/m3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
R4-7502	Butane (TIC)	200	NJ	ug/m3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
R4-8000122	Dichlorofluoroethane (TIC)	70	NJ	ug/m3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
R4-7509	Pentane (TIC)	50	NJ	ug/m3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
R4-6500	Petroleum Product:		N		11:55	12/14/11 3:38	EPA TO-15



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG7SGNov11**Lab ID:** E114801-11**Station ID:** WPG7**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.81	J, Q-2	ug/m3	3.5	11/30/11 11:55	12/14/11 4:28	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 4:28	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 4:28	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.69	J, Q-2	ug/m3	3.0	11/30/11 11:55	12/14/11 4:28	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-34-3	1,1-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.5	U	ug/m3	1.5	11/30/11 11:55	12/14/11 4:28	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	2.9	U	ug/m3	2.9	11/30/11 11:55	12/14/11 4:28	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.77	J, Q-2	ug/m3	2.0	11/30/11 11:55	12/14/11 4:28	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	3.1	U	ug/m3	3.1	11/30/11 11:55	12/14/11 4:28	EPA TO-15
95-50-1	1,2-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 4:28	EPA TO-15
107-06-2	1,2-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 4:28	EPA TO-15
78-87-5	1,2-Dichloropropane	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 4:28	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	0.27	J, Q-2	ug/m3	2.8	11/30/11 11:55	12/14/11 4:28	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 4:28	EPA TO-15
106-99-0	1,3-Butadiene	1.8	U, J, QC-1, QL-1	ug/m3	1.8	11/30/11 11:55	12/14/11 4:28	EPA TO-15
541-73-1	1,3-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 4:28	EPA TO-15
106-46-7	1,4-Dichlorobenzene	0.33	J, Q-2	ug/m3	2.5	11/30/11 11:55	12/14/11 4:28	EPA TO-15
123-91-1	1,4-Dioxane	3.7	U	ug/m3	3.7	11/30/11 11:55	12/14/11 4:28	EPA TO-15
107-05-1	3-Chloropropene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 4:28	EPA TO-15
622-96-8	4-Ethyltoluene	4.2	U	ug/m3	4.2	11/30/11 11:55	12/14/11 4:28	EPA TO-15
67-64-1	Acetone	37		ug/m3	11	11/30/11 11:55	12/02/11 2:49	EPA TO-15
107-13-1	Acrylonitrile	0.19	J, Q-2	ug/m3	0.85	11/30/11 11:55	12/14/11 4:28	EPA TO-15
71-43-2	Benzene	1.3		ug/m3	1.3	11/30/11 11:55	12/14/11 4:28	EPA TO-15
100-44-7	Benzyl chloride	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-27-4	Bromodichloromethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-25-2	Bromoform	30	U	ug/m3	30	11/30/11 11:55	12/14/11 4:28	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG7SGNov11**Lab ID:** E114801-11**Station ID:** WPG7**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	1.5	U, J, QC-1, QL-1	ug/m3	1.5	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-15-0	Carbon disulfide	2.8		ug/m3	1.3	11/30/11 11:55	12/14/11 4:28	EPA TO-15
56-23-5	Carbon Tetrachloride	0.29	J, Q-2	ug/m3	2.5	11/30/11 11:55	12/14/11 4:28	EPA TO-15
108-90-7	Chlorobenzene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-00-3	Chloroethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 4:28	EPA TO-15
67-66-3	Chloroform	4.7		ug/m3	2.0	11/30/11 11:55	12/14/11 4:28	EPA TO-15
74-87-3	Chloromethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 4:28	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 4:28	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 4:28	EPA TO-15
110-82-7	Cyclohexane	1.5	U	ug/m3	1.5	11/30/11 11:55	12/14/11 4:28	EPA TO-15
124-48-1	Dibromochloromethane	3.6	U	ug/m3	3.6	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	3.3		ug/m3	2.0	11/30/11 11:55	12/14/11 4:28	EPA TO-15
141-78-6	Ethyl Acetate	3.7	U	ug/m3	3.7	11/30/11 11:55	12/14/11 4:28	EPA TO-15
100-41-4	Ethyl Benzene	0.46	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 4:28	EPA TO-15
142-82-5	Heptane	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 4:28	EPA TO-15
87-68-3	Hexachlorobutadiene	4.3	U	ug/m3	4.3	11/30/11 11:55	12/14/11 4:28	EPA TO-15
110-54-3	Hexane	0.40	J, Q-2	ug/m3	1.5	11/30/11 11:55	12/14/11 4:28	EPA TO-15
26635-64-3	Isooctane	2.0	U	ug/m3	2.0	11/30/11 11:55	12/14/11 4:28	EPA TO-15
67-63-0	Isopropanol	13	J, QC-2, QL-2	ug/m3	1.2	11/30/11 11:55	12/14/11 4:28	EPA TO-15
591-78-6	Methyl Butyl Ketone	0.73	J, D-2, Q-2	ug/m3	1.9	11/30/11 11:55	12/14/11 4:28	EPA TO-15
78-93-3	Methyl Ethyl Ketone	6.6		ug/m3	1.2	11/30/11 11:55	12/14/11 4:28	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 4:28	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-09-2	Methylene Chloride	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 4:28	EPA TO-15
91-20-3	Naphthalene	3.0	J, QC-2, QL-2, QR-2	ug/m3	2.2	11/30/11 11:55	12/14/11 4:28	EPA TO-15
95-47-6	o-Xylene	0.46	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 4:28	EPA TO-15
115-07-1	Propene	14		ug/m3	1.9	11/30/11 11:55	12/14/11 4:28	EPA TO-15
100-42-5	Styrene	0.21	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 4:28	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG7SGNov11**Lab ID:** E114801-11**Station ID:** WPG7**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethene (Tetrachloroethylene)	63		ug/m3	2.7	11/30/11 11:55	12/14/11 4:28	EPA TO-15
109-99-9	Tetrahydrofuran	3.1	U	ug/m3	3.1	11/30/11 11:55	12/14/11 4:28	EPA TO-15
108-88-3	Toluene	2.0		ug/m3	1.5	11/30/11 11:55	12/14/11 4:28	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 4:28	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 4:28	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	0.29	J, Q-2	ug/m3	2.2	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	1.6	J, Q-2	ug/m3	2.2	11/30/11 11:55	12/14/11 4:28	EPA TO-15
108-05-4	Vinyl acetate	1.5	U	ug/m3	1.5	11/30/11 11:55	12/14/11 4:28	EPA TO-15
593-60-2	Vinyl bromide	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-01-4	Vinyl chloride	1.0	U, J, QC-1, QL-1	ug/m3	1.0	11/30/11 11:55	12/14/11 4:28	EPA TO-15

Tentatively Identified Compounds:

R4-7505	Acetaldehyde (TIC)	100	NJ	ug/m3	11/30/11 11:55	12/14/11 4:28	EPA TO-15
R4-7502	Butane (TIC)	600	NJ	ug/m3	11/30/11 11:55	12/14/11 4:28	EPA TO-15
R4-8000122	Dichlorofluoroethane (TIC)	100	NJ	ug/m3	11/30/11 11:55	12/14/11 4:28	EPA TO-15



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Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG8SGNov11**Lab ID:** E114801-12**Station ID:** WPG8**Matrix:** Soil Gas**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.66	J, Q-2	ug/m3	3.5	11/30/11 11:55	12/14/11 5:17	EPA TO-15
71-55-6	1,1,1-Trichloroethane	0.25	J, Q-2	ug/m3	2.2	11/30/11 11:55	12/14/11 5:17	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.64	J, Q-2	ug/m3	3.0	11/30/11 11:55	12/14/11 5:17	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-34-3	1,1-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.5	U	ug/m3	1.5	11/30/11 11:55	12/14/11 5:17	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	2.9	U	ug/m3	2.9	11/30/11 11:55	12/14/11 5:17	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.35	J, Q-2	ug/m3	2.0	11/30/11 11:55	12/14/11 5:17	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	3.1	U	ug/m3	3.1	11/30/11 11:55	12/14/11 5:17	EPA TO-15
95-50-1	1,2-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 5:17	EPA TO-15
107-06-2	1,2-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 5:17	EPA TO-15
78-87-5	1,2-Dichloropropane	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 5:17	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 5:17	EPA TO-15
106-99-0	1,3-Butadiene	1.8	U, J, QC-1, QL-1	ug/m3	1.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
541-73-1	1,3-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 5:17	EPA TO-15
106-46-7	1,4-Dichlorobenzene	0.43	J, Q-2	ug/m3	2.4	11/30/11 11:55	12/14/11 5:17	EPA TO-15
123-91-1	1,4-Dioxane	3.7	U	ug/m3	3.7	11/30/11 11:55	12/14/11 5:17	EPA TO-15
107-05-1	3-Chloropropene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 5:17	EPA TO-15
622-96-8	4-Ethyltoluene	4.2	U	ug/m3	4.2	11/30/11 11:55	12/14/11 5:17	EPA TO-15
67-64-1	Acetone	170	J, QC-4	ug/m3	11	11/30/11 11:55	12/02/11 3:37	EPA TO-15
107-13-1	Acrylonitrile	0.21	J, Q-2	ug/m3	0.84	11/30/11 11:55	12/14/11 5:17	EPA TO-15
71-43-2	Benzene	1.4		ug/m3	1.3	11/30/11 11:55	12/14/11 5:17	EPA TO-15
100-44-7	Benzyl chloride	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-27-4	Bromodichloromethane	0.33	J, Q-2	ug/m3	2.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-25-2	Bromoform	30	U	ug/m3	30	11/30/11 11:55	12/14/11 5:17	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG8SGNov11**Lab ID:** E114801-12**Station ID:** WPG8**Matrix:** Soil Gas**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	1.5	U, J, QC-1, QL-1	ug/m3	1.5	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-15-0	Carbon disulfide	2.1		ug/m3	1.3	11/30/11 11:55	12/14/11 5:17	EPA TO-15
56-23-5	Carbon Tetrachloride	0.39	J, Q-2	ug/m3	2.5	11/30/11 11:55	12/14/11 5:17	EPA TO-15
108-90-7	Chlorobenzene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-00-3	Chloroethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 5:17	EPA TO-15
67-66-3	Chloroform	12		ug/m3	1.9	11/30/11 11:55	12/14/11 5:17	EPA TO-15
74-87-3	Chloromethane	0.62	J, Q-2	ug/m3	2.1	11/30/11 11:55	12/14/11 5:17	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 5:17	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
110-82-7	Cyclohexane	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 5:17	EPA TO-15
124-48-1	Dibromochloromethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.8		ug/m3	2.0	11/30/11 11:55	12/14/11 5:17	EPA TO-15
141-78-6	Ethyl Acetate	3.7	U	ug/m3	3.7	11/30/11 11:55	12/14/11 5:17	EPA TO-15
100-41-4	Ethyl Benzene	0.41	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 5:17	EPA TO-15
142-82-5	Heptane	7.5		ug/m3	1.7	11/30/11 11:55	12/14/11 5:17	EPA TO-15
87-68-3	Hexachlorobutadiene	4.2	U	ug/m3	4.2	11/30/11 11:55	12/14/11 5:17	EPA TO-15
110-54-3	Hexane	2.7		ug/m3	1.4	11/30/11 11:55	12/14/11 5:17	EPA TO-15
26635-64-3	Isooctane	2.0	U	ug/m3	2.0	11/30/11 11:55	12/14/11 5:17	EPA TO-15
67-63-0	Isopropanol	520		ug/m3	190	11/30/11 11:55	12/01/11 6:16	EPA TO-15
591-78-6	Methyl Butyl Ketone	3.2	J, D-2	ug/m3	1.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
78-93-3	Methyl Ethyl Ketone	23		ug/m3	1.2	11/30/11 11:55	12/14/11 5:17	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	1.5	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-09-2	Methylene Chloride	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 5:17	EPA TO-15
91-20-3	Naphthalene	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 5:17	EPA TO-15
95-47-6	o-Xylene	0.41	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
115-07-1	Propene	9.2		ug/m3	1.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
100-42-5	Styrene	0.29	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 5:17	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG8SGNov11**Lab ID:** E114801-12**Station ID:** WPG8**Matrix:** Soil Gas**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2.9		ug/m3	2.7	11/30/11 11:55	12/14/11 5:17	EPA TO-15
109-99-9	Tetrahydrofuran	0.16	J, Q-2	ug/m3	3.1	11/30/11 11:55	12/14/11 5:17	EPA TO-15
108-88-3	Toluene	2.2		ug/m3	1.5	11/30/11 11:55	12/14/11 5:17	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 5:17	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 5:17	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	1.4	J, Q-2	ug/m3	2.2	11/30/11 11:55	12/14/11 5:17	EPA TO-15
108-05-4	Vinyl acetate	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 5:17	EPA TO-15
593-60-2	Vinyl bromide	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-01-4	Vinyl chloride	1.0	U, J, QC-1, QL-1	ug/m3	1.0	11/30/11 11:55	12/14/11 5:17	EPA TO-15
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:		N			11:55 11:55	12/02/11 3:37	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG9SGNov11**Lab ID:** E114801-13**Station ID:** WPG9**Matrix:** Soil Gas**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	2.4	J, Q-2	ug/m3	3.5	11/30/11 11:55	12/08/11 17:30	EPA TO-15
71-55-6	1,1,1-Trichloroethane	0.18	J, Q-2	ug/m3	2.2	11/30/11 11:55	12/08/11 17:30	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/08/11 17:30	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.41	J, Q-2	ug/m3	3.0	11/30/11 11:55	12/08/11 17:30	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.2	U	ug/m3	2.2	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-34-3	1,1-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.5	U	ug/m3	1.5	11/30/11 11:55	12/08/11 17:30	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	12/08/11 17:30	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	3.3		ug/m3	1.9	11/30/11 11:55	12/08/11 17:30	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	3.1	U	ug/m3	3.1	11/30/11 11:55	12/08/11 17:30	EPA TO-15
95-50-1	1,2-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/08/11 17:30	EPA TO-15
107-06-2	1,2-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/08/11 17:30	EPA TO-15
78-87-5	1,2-Dichloropropane	1.8	U	ug/m3	1.8	11/30/11 11:55	12/08/11 17:30	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	2.7	U	ug/m3	2.7	11/30/11 11:55	12/08/11 17:30	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	0.27	J, Q-2	ug/m3	1.9	11/30/11 11:55	12/08/11 17:30	EPA TO-15
106-99-0	1,3-Butadiene	3.3		ug/m3	1.8	11/30/11 11:55	12/08/11 17:30	EPA TO-15
541-73-1	1,3-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/08/11 17:30	EPA TO-15
106-46-7	1,4-Dichlorobenzene	1.1	J, Q-2	ug/m3	2.4	11/30/11 11:55	12/08/11 17:30	EPA TO-15
123-91-1	1,4-Dioxane	0.55	J, Q-2	ug/m3	3.7	11/30/11 11:55	12/08/11 17:30	EPA TO-15
107-05-1	3-Chloropropene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/08/11 17:30	EPA TO-15
622-96-8	4-Ethyltoluene	4.2	U	ug/m3	4.2	11/30/11 11:55	12/08/11 17:30	EPA TO-15
67-64-1	Acetone	230	J, QC-4	ug/m3	11	11/30/11 11:55	12/02/11 4:25	EPA TO-15
107-13-1	Acrylonitrile	0.70	J, Q-2	ug/m3	0.84	11/30/11 11:55	12/08/11 17:30	EPA TO-15
71-43-2	Benzene	4.9		ug/m3	1.3	11/30/11 11:55	12/08/11 17:30	EPA TO-15
100-44-7	Benzyl chloride	2.1	U	ug/m3	2.1	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-27-4	Bromodichloromethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-25-2	Bromoform	29	U	ug/m3	29	11/30/11 11:55	12/08/11 17:30	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG9SGNov11**Lab ID:** E114801-13**Station ID:** WPG9**Matrix:** Soil Gas**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	1.5	U, J, QC-1	ug/m3	1.5	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-15-0	Carbon disulfide	3.1		ug/m3	1.3	11/30/11 11:55	12/08/11 17:30	EPA TO-15
56-23-5	Carbon Tetrachloride	0.35	J, Q-2	ug/m3	2.5	11/30/11 11:55	12/08/11 17:30	EPA TO-15
108-90-7	Chlorobenzene	0.35	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-00-3	Chloroethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/08/11 17:30	EPA TO-15
67-66-3	Chloroform	3.1		ug/m3	1.9	11/30/11 11:55	12/08/11 17:30	EPA TO-15
74-87-3	Chloromethane	2.0	U	ug/m3	2.0	11/30/11 11:55	12/08/11 17:30	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/08/11 17:30	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/08/11 17:30	EPA TO-15
110-82-7	Cyclohexane	41		ug/m3	1.4	11/30/11 11:55	12/08/11 17:30	EPA TO-15
124-48-1	Dibromochloromethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.4		ug/m3	2.0	11/30/11 11:55	12/08/11 17:30	EPA TO-15
141-78-6	Ethyl Acetate	3.7	U	ug/m3	3.7	11/30/11 11:55	12/08/11 17:30	EPA TO-15
100-41-4	Ethyl Benzene	2.9		ug/m3	1.7	11/30/11 11:55	12/08/11 17:30	EPA TO-15
142-82-5	Heptane	65		ug/m3	8.6	11/30/11 11:55	12/02/11 4:25	EPA TO-15
87-68-3	Hexachlorobutadiene	4.2	U	ug/m3	4.2	11/30/11 11:55	12/08/11 17:30	EPA TO-15
110-54-3	Hexane	15		ug/m3	1.4	11/30/11 11:55	12/08/11 17:30	EPA TO-15
26635-64-3	Isooctane	2.0	U	ug/m3	2.0	11/30/11 11:55	12/08/11 17:30	EPA TO-15
67-63-0	Isopropanol	120	J, QC-4, QL-1	ug/m3	6.1	11/30/11 11:55	12/02/11 4:25	EPA TO-15
591-78-6	Methyl Butyl Ketone	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 6:11	EPA TO-15
78-93-3	Methyl Ethyl Ketone	21		ug/m3	1.2	11/30/11 11:55	12/08/11 17:30	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	1.0	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/08/11 17:30	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.6	U	ug/m3	1.6	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-09-2	Methylene Chloride	1.4	U	ug/m3	1.4	11/30/11 11:55	12/08/11 17:30	EPA TO-15
91-20-3	Naphthalene	6.4	J, QR-2	ug/m3	2.2	11/30/11 11:55	12/08/11 17:30	EPA TO-15
95-47-6	o-Xylene	1.1	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/08/11 17:30	EPA TO-15
115-07-1	Propene	180	J, QC-4	ug/m3	9.1	11/30/11 11:55	12/02/11 4:25	EPA TO-15
100-42-5	Styrene	31		ug/m3	1.7	11/30/11 11:55	12/08/11 17:30	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.84	J, Q-2	ug/m3	2.7	11/30/11 11:55	12/08/11 17:30	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG9SGNov11**Lab ID:** E114801-13**Station ID:** WPG9**Matrix:** Soil Gas**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
109-99-9	Tetrahydrofuran	0.23	J, Q-2	ug/m3	3.1	11/30/11 11:55	12/08/11 17:30	EPA TO-15
108-88-3	Toluene	9.8		ug/m3	1.5	11/30/11 11:55	12/08/11 17:30	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/08/11 17:30	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/08/11 17:30	EPA TO-15
79-01-6	Trichloroethylene (Trichloroethylene)	2.2	U	ug/m3	2.2	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	1.4	J, Q-2	ug/m3	2.2	11/30/11 11:55	12/08/11 17:30	EPA TO-15
108-05-4	Vinyl acetate	1.4	U	ug/m3	1.4	11/30/11 11:55	12/08/11 17:30	EPA TO-15
593-60-2	Vinyl bromide	1.8	U	ug/m3	1.8	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-01-4	Vinyl chloride	1.0	U	ug/m3	1.0	11/30/11 11:55	12/08/11 17:30	EPA TO-15

Tentatively Identified Compounds:

R4-7505	Acetaldehyde (TIC)	90	NJ	ug/m3	11/30/11 11:55	12/08/11 17:30	EPA TO-15
R4-7502	Butane (TIC)	2000	NJ	ug/m3	11/30/11 11:55	12/08/11 17:30	EPA TO-15
R4-7507	Ethanol (TIC)	200	NJ	ug/m3	11/30/11 11:55	12/08/11 17:30	EPA TO-15
R4-8000229	Hexanal (TIC)	30	NJ	ug/m3	11/30/11 11:55	12/08/11 17:30	EPA TO-15
R4-7545	Limonene (TIC)	30	NJ	ug/m3	11/30/11 11:55	12/08/11 17:30	EPA TO-15
R4-7506	Methylbutane (TIC)	60	NJ	ug/m3	11/30/11 11:55	12/08/11 17:30	EPA TO-15
R4-6500	Petroleum Product:		N		11:55 11:55	12/08/11 17:30	EPA TO-15
R4-6520	Pinene (TIC)	20	NJ	ug/m3	11/30/11 11:55	12/08/11 17:30	EPA TO-15
R4-6501	Unidentified Compound(s)	100	J	ug/m3	11/30/11 11:55	12/08/11 17:30	EPA TO-15



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Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1111111 - V TO-15 Air Canister**Blank (1111111-BLK1)**

Prepared & Analyzed: 11/30/11

EPA TO-15

Surrogate: Dibromoformmethane	100		ug/m3	100.00	100	56.7-147			
Surrogate: Toluene-d8	100		"	100.00	100	54.7-147			
Surrogate: p-Bromofluorobenzene	100		"	100.00	100	44.2-160			
Propene	71.964	340	"				B-3, J		
Dichlorodifluoromethane (Freon 12)	U	360	"				U		
1,2-Dichlorotetrafluoroethane (Freon 114)	U	500	"				U		
Chloromethane	U	380	"				U		
Vinyl chloride	U	190	"				U		
1,3-Butadiene	U	330	"				U		
Bromomethane	U	280	"				U		
Chloroethane	U	490	"				U		
Vinyl bromide	U	340	"				U		
Trichlorofluoromethane (Freon 11)	U	410	"				U		
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	550	"				U		
1,1-Dichloroethene (1,1-Dichloroethylene)	U	280	"				U		
Acetone	34.088	420	"				B-3, J		
Isopropanol	22.726	230	"				B-3, J		
Carbon disulfide	U	230	"				U		
3-Chloropropene	U	440	"				U		
Methylene Chloride	U	250	"				U		
Acrylonitrile	U	160	"				U		
Methyl T-Butyl Ether (MTBE)	U	290	"				U		
trans-1,2-Dichloroethene	U	300	"				U		
Hexane	U	270	"				U		
1,1-Dichloroethane	U	300	"				U		
Vinyl acetate	U	270	"				U		
Methyl Ethyl Ketone	U	230	"				U		
cis-1,2-Dichloroethene	U	290	"				U		
Ethyl Acetate	U	680	"				U		
Chloroform	U	360	"				U		
Tetrahydrofuran	U	570	"				U		
1,1,1-Trichloroethane	U	400	"				U		
Cyclohexane	U	270	"				U		
Carbon Tetrachloride	U	460	"				U		
1,2-Dichloroethane	U	300	"				U		
Benzene	U	240	"				U		
Isooctane	U	370	"				U		
Heptane	U	320	"				U		



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1111111 - V TO-15 Air Canister

Blank (1111111-BLK1)	Prepared & Analyzed: 11/30/11							
Trichloroethene (Trichloroethylene)	U	400	ug/m3					U
1,2-Dichloropropane	U	340	"					U
1,4-Dioxane	U	680	"					U
Bromodichloromethane	U	510	"					U
cis-1,3-Dichloropropene	U	330	"					U
Methyl Isobutyl Ketone	U	340	"					U
Toluene	U	280	"					U
trans-1,3-Dichloropropene	U	350	"					U
1,1,2-Trichloroethane	U	400	"					U
Tetrachloroethene (Tetrachloroethylene)	U	500	"					U
Methyl Butyl Ketone	U	340	"					U
Dibromochloromethane	U	650	"					U
1,2-Dibromoethane (EDB)	U	570	"					U
Chlorobenzene	U	340	"					U
Ethyl Benzene	U	320	"					U
(m- and/or p-)Xylene	U	640	"					U
o-Xylene	U	330	"					U
Styrene	U	310	"					U
Bromoform	U	5500	"					U
1,1,2,2-Tetrachloroethane	U	510	"					U
4-Ethyltoluene	U	770	"					U
1,3,5-Trimethylbenzene	U	350	"					U
1,2,4-Trimethylbenzene	U	360	"					U
1,3-Dichlorobenzene	U	440	"					U
1,4-Dichlorobenzene	41.663	450	"					B-3, J
Benzyl chloride	U	390	"					U
1,2-Dichlorobenzene	U	440	"					U
1,2,4-Trichlorobenzene	U	530	"					U
Hexachlorobutadiene	U	780	"					U
Naphthalene	U	410	"					U
Tentatively Identified Compounds	U	400	"					



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD Limit	Notes
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Batch 1111111 - V TO-15 Air Canister**Blank (1111111-BLK2)**

Prepared & Analyzed: 11/30/11

EPA TO-15

Surrogate: Dibromoformmethane	100		ug/m3	100.00	100	56.7-147		
Surrogate: Toluene-d8	100		"	100.00	100	54.7-147		
Surrogate: p-Bromofluorobenzene	100		"	100.00	100	44.2-160		
Propene	0.35000	2.2	"				B-3, J	
Dichlorodifluoromethane (Freon 12)	U	2.4	"				U	
1,2-Dichlorotetrafluoroethane (Freon 114)	U	3.3	"				U	
Chloromethane	U	2.5	"				U	
Vinyl chloride	U	1.2	"				U	
1,3-Butadiene	U	2.2	"				U	
Bromomethane	U	1.8	"				U	
Chloroethane	U	3.2	"				U	
Vinyl bromide	U	2.2	"				U	
Trichlorofluoromethane (Freon 11)	U	2.7	"				U	
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	3.6	"				U	
1,1-Dichloroethene (1,1-Dichloroethylene)	U	1.8	"				U	
Acetone	U	2.8	"				U	
Isopropanol	U	1.5	"				U	
Carbon disulfide	U	1.6	"				U	
3-Chloropropene	U	2.9	"				U	
Methylene Chloride	U	1.6	"				U	
Acrylonitrile	U	1.0	"				U	
Methyl T-Butyl Ether (MTBE)	U	1.9	"				U	
trans-1,2-Dichloroethene	U	2.0	"				U	
Hexane	U	1.8	"				U	
1,1-Dichloroethane	U	2.0	"				U	
Vinyl acetate	U	1.8	"				U	
Methyl Ethyl Ketone	U	1.5	"				U	
cis-1,2-Dichloroethene	U	1.9	"				U	
Ethyl Acetate	U	4.5	"				U	
Chloroform	U	2.4	"				U	
Tetrahydrofuran	U	3.8	"				U	
1,1,1-Trichloroethane	U	2.6	"				U	
Cyclohexane	U	1.8	"				U	
Carbon Tetrachloride	U	3.0	"				U	
1,2-Dichloroethane	U	2.0	"				U	
Benzene	U	1.6	"				U	
Isooctane	U	2.4	"				U	
Heptane	U	2.1	"				U	



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Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1111111 - V TO-15 Air Canister**Blank (1111111-BLK2)**

Prepared & Analyzed: 11/30/11

Trichloroethene (Trichloroethylene)	U	2.6	ug/m3							U
1,2-Dichloropropane	U	2.2	"							U
1,4-Dioxane	U	4.5	"							U
Bromodichloromethane	U	3.4	"							U
cis-1,3-Dichloropropene	U	2.2	"							U
Methyl Isobutyl Ketone	U	2.2	"							U
Toluene	U	1.8	"							U
trans-1,3-Dichloropropene	U	2.3	"							U
1,1,2-Trichloroethane	U	2.6	"							U
Tetrachloroethene (Tetrachloroethylene)	U	3.3	"							U
Methyl Butyl Ketone	U	2.2	"							U
Dibromochloromethane	U	4.3	"							U
1,2-Dibromoethane (EDB)	U	3.8	"							U
Chlorobenzene	U	2.2	"							U
Ethyl Benzene	U	2.1	"							U
(m- and/or p-)Xylene	U	4.2	"							U
o-Xylene	U	2.2	"							U
Styrene	U	2.1	"							U
Bromoform	U	36	"							U
1,1,2,2-Tetrachloroethane	U	3.4	"							U
4-Ethyltoluene	U	5.1	"							U
1,3,5-Trimethylbenzene	U	2.3	"							U
1,2,4-Trimethylbenzene	U	2.4	"							U
1,3-Dichlorobenzene	U	2.9	"							U
1,4-Dichlorobenzene	U	3.0	"							U
Benzyl chloride	U	2.6	"							U
1,2-Dichlorobenzene	U	2.9	"							U
1,2,4-Trichlorobenzene	U	3.5	"							U
Hexachlorobutadiene	U	5.1	"							U
Naphthalene	U	2.7	"							U
Tentatively Identified Compounds	U	20	"							



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1111111 - V TO-15 Air Canister**LCS (1111111-BS1)**

Prepared & Analyzed: 11/30/11

EPA TO-15

Propene	1.4100		ug/m3	1.8000		78.3	59.6-145			
Dichlorodifluoromethane (Freon 12)	3.9300		"	4.8000		81.9	69.1-133			
1,2-Dichlorotetrafluoroethane (Freon 114)	5.1500		"	6.6000		78.0	66.9-131			
Chloromethane	1.4900		"	2.0000		74.5	63-138			
Vinyl chloride	2.1800		"	2.5000		87.2	62.5-133			
1,3-Butadiene	3.9600		"	4.4000		90.0	61.6-133			
Bromomethane	3.4500		"	3.7000		93.2	55.6-135			
Chloroethane	2.3400		"	2.5000		93.6	59.4-140			
Vinyl bromide	3.3900		"	4.5000		75.3	70.2-124			
Trichlorofluoromethane (Freon 11)	4.5300		"	5.4000		83.9	69.5-131			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.9700		"	7.3000		81.8	66-124			
1,1-Dichloroethene (1,1-Dichloroethylene)	2.9400		"	3.7000		79.5	63.4-123			
Acetone	1.9600		"	2.2000		89.1	66.9-137			
Isopropanol	1.9600		"	2.7000		72.6	52.3-140			
Carbon disulfide	2.5400		"	3.1000		81.9	68.8-124			
3-Chloropropene	4.5400		"	5.8000		78.3	61.9-128			
Methylene Chloride	2.8000		"	3.3000		84.8	64.2-128			
Acrylonitrile	1.6100		"	2.0000		80.5	56.7-134			
Methyl T-Butyl Ether (MTBE)	3.2200		"	3.9000		82.6	75.8-127			
trans-1,2-Dichloroethene	3.4300		"	4.0000		85.8	71.7-128			
Hexane	2.8000		"	3.5000		80.0	65.3-129			
1,1-Dichloroethane	3.2200		"	3.9000		82.6	66.7-127			
Vinyl acetate	2.8600		"	3.5000		81.7	64.6-137			
Methyl Ethyl Ketone	2.3600		"	3.0000		78.7	73.8-123			
cis-1,2-Dichloroethene	3.0500		"	3.8000		80.3	68.4-125			
Ethyl Acetate	2.8700		"	3.6000		79.7	67.8-122			
Chloroform	3.9500		"	4.7000		84.0	69.5-127			
Tetrahydrofuran	2.3300		"	3.0000		77.7	61-128			
1,1,1-Trichloroethane	4.3400		"	5.2000		83.5	68.8-128			
Cyclohexane	2.8700		"	3.5000		82.0	65.8-128			
Carbon Tetrachloride	5.0500		"	6.0000		84.2	64.1-132			
1,2-Dichloroethane	3.3100		"	3.9000		84.9	68-127			
Benzene	2.6200		"	3.1000		84.5	65.9-125			
Isooctane	4.0600		"	4.9000		82.9	67.1-129			
Heptane	3.4100		"	4.2000		81.2	61-135			
Trichloroethene (Trichloroethylene)	4.1000		"	5.3000		77.4	66.3-133			
1,2-Dichloropropane	3.7900		"	4.5000		84.2	63.4-130			
1,4-Dioxane	2.5400		"	3.5000		72.6	31-137			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1111111 - V TO-15 Air Canister

LCS (1111111-BS1)	Prepared & Analyzed: 11/30/11					
Bromodichloromethane	5.5000		ug/m3	6.7000	82.1	69.8-129
cis-1,3-Dichloropropene	3.5200		"	4.4000	80.0	67.4-123
Methyl Isobutyl Ketone	4.0700		"	4.5000	90.4	54.5-132
Toluene	3.1500		"	3.7000	85.1	70.5-123
trans-1,3-Dichloropropene	3.7100		"	4.6000	80.7	66.3-122
1,1,2-Trichloroethane	4.6100		"	5.3000	87.0	72.7-123
Tetrachloroethylene (Tetrachloroethylene)	5.4100		"	6.6000	82.0	69.7-125
Methyl Butyl Ketone	3.5400		"	4.5000	78.7	47.8-124
Dibromochloromethane	7.1200		"	8.6000	82.8	64.5-129
1,2-Dibromoethane (EDB)	6.2600		"	7.5000	83.5	70.2-123
Chlorobenzene	3.9000		"	4.5000	86.7	70.9-123
Ethyl Benzene	3.7200		"	4.3000	86.5	72-124
(m- and/or p-)Xylene	7.6600		"	8.5000	90.1	74.7-125
o-Xylene	3.8200		"	4.3000	88.8	74.8-125
Styrene	3.5900		"	4.1000	87.6	66.9-128
Bromoform	62.320		"	72.000	86.6	32.1-146
1,1,2,2-Tetrachloroethane	6.5500		"	6.7000	97.8	67-133
4-Ethyltoluene	9.8900		"	10.200	97.0	72.4-141
1,3,5-Trimethylbenzene	4.5400		"	4.6000	98.7	75.2-139
1,2,4-Trimethylbenzene	4.6400		"	4.8000	96.7	69.3-149
1,3-Dichlorobenzene	5.4100		"	5.8000	93.3	65.3-136
1,4-Dichlorobenzene	5.4000		"	5.9000	91.5	63.2-137
Benzyl chloride	4.5700		"	5.2000	87.9	45.5-132
1,2-Dichlorobenzene	5.3300		"	5.8000	91.9	68.1-139
1,2,4-Trichlorobenzene	5.6900		"	7.0000	81.3	26.5-201
Hexachlorobutadiene	9.3900		"	10.200	92.1	43.2-184
Naphthalene	4.2800		"	5.4000	79.3	70-130



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

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Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1111111 - V TO-15 Air Canister**MRL Verification (1111111-PS1)**

Prepared & Analyzed: 11/30/11

EPA TO-15

Propene	0.49000		ug/m3	0.36000		136	39.6-165			
Dichlorodifluoromethane (Freon 12)	0.93000		"	0.96000		96.9	49.1-153			MRL-5
1,2-Dichlorotetrafluoroethane (Freon 114)	1.2100		"	1.3000		93.1	46.9-151			MRL-5
Chloromethane	0.37000		"	0.40000		92.5	43-158			
Vinyl chloride	0.51000		"	0.49000		104	42.5-153			MRL-5
1,3-Butadiene	0.95000		"	0.88000		108	41.6-153			MRL-5
Bromomethane	0.79000		"	0.74000		107	35.6-155			MRL-5
Chloroethane	0.60000		"	0.51000		118	39.4-160			MRL-5
Vinyl bromide	0.76000		"	0.89000		85.4	50.2-144			MRL-5
Trichlorofluoromethane (Freon 11)	1.0700		"	1.1000		97.3	49.5-151			MRL-5
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1.3200		"	1.5000		88.0	46-144			MRL-5
1,1-Dichloroethene (1,1-Dichloroethylene)	0.65000		"	0.74000		87.8	43.4-143			MRL-5
Acetone	0.43000		"	0.44000		97.7	46.9-157			
Isopropanol	0.70000		"	0.54000		130	32.3-160			MRL-5
Carbon disulfide	0.58000		"	0.62000		93.5	48.8-144			MRL-5
3-Chloropropene	0.95000		"	1.2000		79.2	41.9-148			MRL-5
Methylene Chloride	0.65000		"	0.66000		98.5	44.2-148			MRL-5
Acrylonitrile	0.33000		"	0.41000		80.5	36.7-154			MRL-5
Methyl T-Butyl Ether (MTBE)	0.55000		"	0.77000		71.4	55.8-147			MRL-5
trans-1,2-Dichloroethene	0.70000		"	0.79000		88.6	51.7-148			MRL-5
Hexane	0.51000		"	0.70000		72.9	45.3-149			MRL-5
1,1-Dichloroethane	0.73000		"	0.78000		93.6	46.7-147			MRL-5
Vinyl acetate	0.47000		"	0.70000		67.1	44.6-157			MRL-5
Methyl Ethyl Ketone	0.40000		"	0.60000		66.7	53.8-143			MRL-5
cis-1,2-Dichloroethene	0.57000		"	0.77000		74.0	48.4-145			MRL-5
Ethyl Acetate	0.42000		"	0.73000		57.5	47.8-142			
Chloroform	0.89000		"	0.94000		94.7	49.5-147			MRL-5
Tetrahydrofuran	0.40000		"	0.60000		66.7	41-148			
1,1,1-Trichloroethane	0.98000		"	1.0000		98.0	48.8-148			MRL-5
Cyclohexane	0.53000		"	0.70000		75.7	45.8-148			MRL-5
Carbon Tetrachloride	1.0800		"	1.2000		90.0	44.1-152			MRL-5
1,2-Dichloroethane	0.72000		"	0.78000		92.3	48-147			MRL-5
Benzene	0.54000		"	0.63000		85.7	45.9-145			MRL-5
Isooctane	0.74000		"	0.97000		76.3	47.1-149			MRL-5
Heptane	0.62000		"	0.84000		73.8	41-155			MRL-5
Trichloroethene (Trichloroethylene)	0.83000		"	1.1000		75.5	46.3-153			MRL-5
1,2-Dichloropropane	0.75000		"	0.90000		83.3	43.4-150			MRL-5
1,4-Dioxane	0.36000		"	0.71000		50.7	11-157			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1111111 - V TO-15 Air Canister**MRL Verification (1111111-PS1)**

Prepared & Analyzed: 11/30/11

Bromodichloromethane	1.1800	ug/m3		1.3000	90.8	49.8-149				MRL-5
cis-1,3-Dichloropropene	0.62000	"		0.88000	70.5	47.4-143				MRL-5
Methyl Isobutyl Ketone	0.57000	"		0.90000	63.3	34.5-152				MRL-5
Toluene	0.54000	"		0.74000	73.0	50.5-143				MRL-5
trans-1,3-Dichloropropene	0.59000	"		0.93000	63.4	46.3-142				MRL-5
1,1,2-Trichloroethane	0.89000	"		1.1000	80.9	52.7-143				MRL-5
Tetrachloroethylene (Tetrachloroethylene)	1.1600	"		1.3000	89.2	49.7-145				MRL-5
Methyl Butyl Ketone	0.50000	"		0.90000	55.6	27.8-144				MRL-5
Dibromo-chloromethane	1.3600	"		1.7000	80.0	44.5-149				MRL-5
1,2-Dibromoethane (EDB)	1.2400	"		1.5000	82.7	50.2-143				MRL-5
Chlorobenzene	0.80000	"		0.90000	88.9	50.9-143				MRL-5
Ethyl Benzene	0.56000	"		0.85000	65.9	52-144				MRL-5
(m- and/or p-)Xylene	1.1700	"		1.7000	68.8	54.7-145				MRL-5
o-Xylene	0.53000	"		0.86000	61.6	54.8-145				MRL-5
Styrene	0.46000	"		0.83000	55.4	46.9-148				MRL-5
Bromoform	12.020	"		14.000	85.9	12.1-166				MRL-5
1,1,2,2-Tetrachloroethane	1.3900	"		1.3000	107	47-153				MRL-5
4-Ethyltoluene	1.4600	"		2.0000	73.0	52.4-161				MRL-5
1,3,5-Trimethylbenzene	0.73000	"		0.92000	79.3	55.2-159				MRL-5
1,2,4-Trimethylbenzene	0.60000	"		0.95000	63.2	49.3-169				MRL-5
1,3-Dichlorobenzene	1.0200	"		1.2000	85.0	45.3-156				MRL-5
1,4-Dichlorobenzene	1.1500	"		1.2000	95.8	43.2-157				MRL-5
Benzyl chloride	0.71000	"		1.0000	71.0	25.5-152				MRL-5
1,2-Dichlorobenzene	1.0600	"		1.2000	88.3	48.1-159				MRL-5
1,2,4-Trichlorobenzene	2.1700	"		1.4000	155	10-221				MRL-5
Hexachlorobutadiene	3.6600	"		2.0000	183	23.2-204				
Naphthalene	1.5100	"		1.1000	137	50-150				MRL-5



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112005 - V TO-15 Air Canister**Blank (1112005-BLK1)**

Prepared & Analyzed: 12/01/11

EPA TO-15

Surrogate: Dibromoformmethane	100		ug/m3	100.00	100	56.7-147				
Surrogate: Toluene-d8	99.7		"	100.00	99.7	54.7-147				
Surrogate: p-Bromofluorobenzene	100		"	100.00	100	44.2-160				
Propene	1.0500	4.4	"							B-3, J
Dichlorodifluoromethane (Freon 12)	U	4.8	"							U
1,2-Dichlorotetrafluoroethane (Freon 114)	U	6.6	"							U
Chloromethane	U	5.0	"							U
Vinyl chloride	U	2.4	"							U
1,3-Butadiene	U	4.4	"							U
Bromomethane	U	3.7	"							U
Chloroethane	U	6.5	"							U
Vinyl bromide	U	4.4	"							U
Trichlorofluoromethane (Freon 11)	U	5.4	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	7.2	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	3.7	"							U
Acetone	1.1000	5.5	"							B-3, J
Isopropanol	0.90000	3.0	"							B-3, J
Carbon disulfide	U	3.1	"							U
3-Chloropropene	U	5.8	"							U
Methylene Chloride	U	3.3	"							U
Acrylonitrile	U	2.0	"							U
Methyl T-Butyl Ether (MTBE)	U	3.8	"							U
trans-1,2-Dichloroethene	U	4.0	"							U
Hexane	U	3.5	"							U
1,1-Dichloroethane	U	3.9	"							U
Vinyl acetate	U	3.5	"							U
Methyl Ethyl Ketone	U	3.0	"							U
cis-1,2-Dichloroethene	U	3.8	"							U
Ethyl Acetate	U	9.0	"							U
Chloroform	U	4.7	"							U
Tetrahydrofuran	U	7.5	"							U
1,1,1-Trichloroethane	U	5.2	"							U
Cyclohexane	U	3.5	"							U
Carbon Tetrachloride	U	6.0	"							U
1,2-Dichloroethane	U	3.9	"							U
Benzene	U	3.2	"							U
Isooctane	U	4.8	"							U
Heptane	U	4.2	"							U



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980 College Station Road, Athens, Georgia 30605-2700

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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112005 - V TO-15 Air Canister**Blank (1112005-BLK1)**

Prepared & Analyzed: 12/01/11

Trichloroethene (Trichloroethylene)	U	5.2	ug/m3							U
1,2-Dichloropropane	U	4.5	"							U
1,4-Dioxane	U	9.0	"							U
Bromodichloromethane	U	6.7	"							U
cis-1,3-Dichloropropene	U	4.4	"							U
Methyl Isobutyl Ketone	U	4.5	"							U
Toluene	U	3.7	"							U
trans-1,3-Dichloropropene	U	4.6	"							U
1,1,2-Trichloroethane	U	5.3	"							U
Tetrachloroethene (Tetrachloroethylene)	U	6.6	"							U
Methyl Butyl Ketone	U	4.5	"							U
Dibromochloromethane	U	8.6	"							U
1,2-Dibromoethane (EDB)	U	7.6	"							U
Chlorobenzene	U	4.5	"							U
Ethyl Benzene	U	4.2	"							U
(m- and/or p-)Xylene	U	8.5	"							U
o-Xylene	U	4.3	"							U
Styrene	U	4.2	"							U
Bromoform	U	72	"							U
1,1,2,2-Tetrachloroethane	U	6.7	"							U
4-Ethyltoluene	U	10	"							U
1,3,5-Trimethylbenzene	U	4.6	"							U
1,2,4-Trimethylbenzene	U	4.8	"							U
1,3-Dichlorobenzene	U	5.8	"							U
1,4-Dichlorobenzene	U	6.0	"							U
Benzyl chloride	U	5.2	"							U
1,2-Dichlorobenzene	U	5.8	"							U
1,2,4-Trichlorobenzene	U	7.0	"							U
Hexachlorobutadiene	U	10	"							U
Naphthalene	U	5.4	"							U
Tentatively Identified Compounds	U	10	"							U



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112005 - V TO-15 Air Canister**LCS (1112005-BS1)**

Prepared & Analyzed: 12/01/11

EPA TO-15

Propene	1.4600		ug/m3	1.8000		81.1	59.6-145			
Dichlorodifluoromethane (Freon 12)	4.1000		"	4.8000		85.4	69.1-133			
1,2-Dichlorotetrafluoroethane (Freon 114)	5.3600		"	6.6000		81.2	66.9-131			
Chloromethane	1.5600		"	2.0000		78.0	63-138			
Vinyl chloride	2.3200		"	2.5000		92.8	62.5-133			
1,3-Butadiene	4.2100		"	4.4000		95.7	61.6-133			
Bromomethane	3.5700		"	3.7000		96.5	55.6-135			
Chloroethane	2.1600		"	2.5000		86.4	59.4-140			
Vinyl bromide	3.4300		"	4.5000		76.2	70.2-124			
Trichlorofluoromethane (Freon 11)	4.8500		"	5.4000		89.8	69.5-131			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	6.1900		"	7.3000		84.8	66-124			
1,1-Dichloroethene (1,1-Dichloroethylene)	3.0500		"	3.7000		82.4	63.4-123			
Acetone	1.9500		"	2.2000		88.6	66.9-137			
Isopropanol	1.3100		"	2.7000		48.5	52.3-140			QL-1
Carbon disulfide	2.6500		"	3.1000		85.5	68.8-124			
3-Chloropropene	4.6500		"	5.8000		80.2	61.9-128			
Methylene Chloride	2.9700		"	3.3000		90.0	64.2-128			
Acrylonitrile	1.6300		"	2.0000		81.5	56.7-134			
Methyl T-Butyl Ether (MTBE)	3.3000		"	3.9000		84.6	75.8-127			
trans-1,2-Dichloroethene	3.3600		"	4.0000		84.0	71.7-128			
Hexane	2.8700		"	3.5000		82.0	65.3-129			
1,1-Dichloroethane	3.3300		"	3.9000		85.4	66.7-127			
Vinyl acetate	2.8000		"	3.5000		80.0	64.6-137			
Methyl Ethyl Ketone	2.4100		"	3.0000		80.3	73.8-123			
cis-1,2-Dichloroethene	3.1400		"	3.8000		82.6	68.4-125			
Ethyl Acetate	2.8300		"	3.6000		78.6	67.8-122			
Chloroform	4.0400		"	4.7000		86.0	69.5-127			
Tetrahydrofuran	2.3500		"	3.0000		78.3	61-128			
1,1,1-Trichloroethane	4.6000		"	5.2000		88.5	68.8-128			
Cyclohexane	2.9100		"	3.5000		83.1	65.8-128			
Carbon Tetrachloride	5.3100		"	6.0000		88.5	64.1-132			
1,2-Dichloroethane	3.4400		"	3.9000		88.2	68-127			
Benzene	2.7000		"	3.1000		87.1	65.9-125			
Isooctane	4.0900		"	4.9000		83.5	67.1-129			
Heptane	3.4200		"	4.2000		81.4	61-135			
Trichloroethene (Trichloroethylene)	4.2300		"	5.3000		79.8	66.3-133			
1,2-Dichloropropane	3.9600		"	4.5000		88.0	63.4-130			
1,4-Dioxane	2.5600		"	3.5000		73.1	31-137			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112005 - V TO-15 Air Canister

LCS (1112005-BS1)	Prepared & Analyzed: 12/01/11					
Bromodichloromethane	5.6600		ug/m3	6.7000	84.5	69.8-129
cis-1,3-Dichloropropene	3.5200		"	4.4000	80.0	67.4-123
Methyl Isobutyl Ketone	3.9300		"	4.5000	87.3	54.5-132
Toluene	3.2300		"	3.7000	87.3	70.5-123
trans-1,3-Dichloropropene	3.8600		"	4.6000	83.9	66.3-122
1,1,2-Trichloroethane	4.8200		"	5.3000	90.9	72.7-123
Tetrachloroethylene (Tetrachloroethylene)	5.4000		"	6.6000	81.8	69.7-125
Methyl Butyl Ketone	3.1700		"	4.5000	70.4	47.8-124
Dibromochloromethane	7.2400		"	8.6000	84.2	64.5-129
1,2-Dibromoethane (EDB)	6.5100		"	7.5000	86.8	70.2-123
Chlorobenzene	3.8900		"	4.5000	86.4	70.9-123
Ethyl Benzene	3.8300		"	4.3000	89.1	72-124
(m- and/or p-)Xylene	7.7500		"	8.5000	91.2	74.7-125
o-Xylene	3.9600		"	4.3000	92.1	74.8-125
Styrene	3.6000		"	4.1000	87.8	66.9-128
Bromoform	62.910		"	72.000	87.4	32.1-146
1,1,2,2-Tetrachloroethane	6.6400		"	6.7000	99.1	67-133
4-Ethyltoluene	10.160		"	10.200	99.6	72.4-141
1,3,5-Trimethylbenzene	4.5900		"	4.6000	99.8	75.2-139
1,2,4-Trimethylbenzene	4.6800		"	4.8000	97.5	69.3-149
1,3-Dichlorobenzene	5.3900		"	5.8000	92.9	65.3-136
1,4-Dichlorobenzene	5.4900		"	5.9000	93.1	63.2-137
Benzyl chloride	4.4400		"	5.2000	85.4	45.5-132
1,2-Dichlorobenzene	5.7700		"	5.8000	99.5	68.1-139
1,2,4-Trichlorobenzene	5.0100		"	7.0000	71.6	26.5-201
Hexachlorobutadiene	8.0500		"	10.200	78.9	43.2-184
Naphthalene	3.9500		"	5.4000	73.1	70-130



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112005 - V TO-15 Air Canister**MRL Verification (1112005-PS1)**

Prepared & Analyzed: 12/01/11

EPA TO-15

Propene	0.46000		ug/m3	0.36000		128	39.6-165			
Dichlorodifluoromethane (Freon 12)	0.94000		"	0.96000		97.9	49.1-153			MRL-5
1,2-Dichlorotetrafluoroethane (Freon 114)	1.1900		"	1.3000		91.5	46.9-151			MRL-5
Chloromethane	0.36000		"	0.40000		90.0	43-158			
Vinyl chloride	0.49000		"	0.49000		100	42.5-153			MRL-5
1,3-Butadiene	0.86000		"	0.88000		97.7	41.6-153			MRL-5
Bromomethane	0.77000		"	0.74000		104	35.6-155			MRL-5
Chloroethane	0.54000		"	0.51000		106	39.4-160			
Vinyl bromide	0.70000		"	0.89000		78.7	50.2-144			MRL-5
Trichlorofluoromethane (Freon 11)	1.0400		"	1.1000		94.5	49.5-151			MRL-5
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1.2900		"	1.5000		86.0	46-144			MRL-5
1,1-Dichloroethene (1,1-Dichloroethylene)	0.64000		"	0.74000		86.5	43.4-143			MRL-5
Acetone	0.39000		"	0.44000		88.6	46.9-157			
Isopropanol	0.63000		"	0.54000		117	32.3-160			MRL-5
Carbon disulfide	0.55000		"	0.62000		88.7	48.8-144			MRL-5
3-Chloropropene	0.84000		"	1.2000		70.0	41.9-148			MRL-5
Methylene Chloride	0.57000		"	0.66000		86.4	44.2-148			MRL-5
Acrylonitrile	0.26000		"	0.41000		63.4	36.7-154			MRL-5
Methyl T-Butyl Ether (MTBE)	0.45000		"	0.77000		58.4	55.8-147			MRL-5
trans-1,2-Dichloroethene	0.63000		"	0.79000		79.7	51.7-148			MRL-5
Hexane	0.45000		"	0.70000		64.3	45.3-149			MRL-5
1,1-Dichloroethane	0.67000		"	0.78000		85.9	46.7-147			MRL-5
Vinyl acetate	0.39000		"	0.70000		55.7	44.6-157			MRL-5
Methyl Ethyl Ketone	0.40000		"	0.60000		66.7	53.8-143			MRL-5
cis-1,2-Dichloroethene	0.54000		"	0.77000		70.1	48.4-145			MRL-5
Ethyl Acetate	0.36000		"	0.73000		49.3	47.8-142			
Chloroform	0.78000		"	0.94000		83.0	49.5-147			MRL-5
Tetrahydrofuran	0.33000		"	0.60000		55.0	41-148			
1,1,1-Trichloroethane	0.91000		"	1.0000		91.0	48.8-148			MRL-5
Cyclohexane	0.47000		"	0.70000		67.1	45.8-148			MRL-5
Carbon Tetrachloride	1.0200		"	1.2000		85.0	44.1-152			MRL-5
1,2-Dichloroethane	0.67000		"	0.78000		85.9	48-147			MRL-5
Benzene	0.50000		"	0.63000		79.4	45.9-145			MRL-5
Isooctane	0.65000		"	0.97000		67.0	47.1-149			MRL-5
Heptane	0.52000		"	0.84000		61.9	41-155			MRL-5
Trichloroethene (Trichloroethylene)	0.81000		"	1.1000		73.6	46.3-153			MRL-5
1,2-Dichloropropane	0.66000		"	0.90000		73.3	43.4-150			MRL-5
1,4-Dioxane	0.28000		"	0.71000		39.4	11-157			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112005 - V TO-15 Air Canister**MRL Verification (1112005-PS1)**

Prepared & Analyzed: 12/01/11

Bromodichloromethane	1.0800		ug/m3	1.3000	83.1	49.8-149				MRL-5
cis-1,3-Dichloropropene	0.61000		"	0.88000	69.3	47.4-143				MRL-5
Methyl Isobutyl Ketone	0.53000		"	0.90000	58.9	34.5-152				MRL-5
Toluene	0.48000		"	0.74000	64.9	50.5-143				MRL-5
trans-1,3-Dichloropropene	0.57000		"	0.93000	61.3	46.3-142				MRL-5
1,1,2-Trichloroethane	0.89000		"	1.1000	80.9	52.7-143				MRL-5
Tetrachloroethylene (Tetrachloroethylene)	1.0400		"	1.3000	80.0	49.7-145				MRL-5
Methyl Butyl Ketone	0.44000		"	0.90000	48.9	27.8-144				MRL-5
Dibromochloromethane	1.2200		"	1.7000	71.8	44.5-149				MRL-5
1,2-Dibromoethane (EDB)	1.1500		"	1.5000	76.7	50.2-143				MRL-5
Chlorobenzene	0.68000		"	0.90000	75.6	50.9-143				MRL-5
Ethyl Benzene	0.50000		"	0.85000	58.8	52-144				MRL-5
(m- and/or p-)Xylene	0.98000		"	1.7000	57.6	54.7-145				MRL-5
o-Xylene	0.46000		"	0.86000	53.5	54.8-145				MRL-5, QR-1
Styrene	0.37000		"	0.83000	44.6	46.9-148				MRL-5, QR-1
Bromoform	11.210		"	14.000	80.1	12.1-166				MRL-5
1,1,2,2-Tetrachloroethane	1.2900		"	1.3000	99.2	47-153				MRL-5
4-Ethyltoluene	1.1900		"	2.0000	59.5	52.4-161				MRL-5
1,3,5-Trimethylbenzene	0.59000		"	0.92000	64.1	55.2-159				MRL-5
1,2,4-Trimethylbenzene	0.48000		"	0.95000	50.5	49.3-169				MRL-5
1,3-Dichlorobenzene	0.93000		"	1.2000	77.5	45.3-156				MRL-5
1,4-Dichlorobenzene	1.0800		"	1.2000	90.0	43.2-157				MRL-5
Benzyl chloride	0.59000		"	1.0000	59.0	25.5-152				MRL-5
1,2-Dichlorobenzene	0.91000		"	1.2000	75.8	48.1-159				MRL-5
1,2,4-Trichlorobenzene	1.9100		"	1.4000	136	10-221				MRL-5
Hexachlorobutadiene	2.7100		"	2.0000	136	23.2-204				
Naphthalene	1.4200		"	1.1000	129	50-150				MRL-5



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister**Blank (1112033-BLK1)**

Prepared: 12/06/11 Analyzed: 12/13/11

EPA TO-15

Surrogate: Dibromoformmethane	100		ug/m3	100.00	100	56.7-147				
Surrogate: Toluene-d8	100		"	100.00	100	54.7-147				
Surrogate: p-Bromofluorobenzene	100		"	100.00	100	44.2-160				
Propene	0.18000	0.89	"							B-3, J
Dichlorodifluoromethane (Freon 12)	U	0.96	"							U
1,2-Dichlorotetrafluoroethane (Freon 114)	U	1.3	"							U
Chloromethane	U	1.0	"							U
Vinyl chloride	U	0.49	"							U
1,3-Butadiene	U	0.88	"							U
Bromomethane	U	0.74	"							U
Chloroethane	U	1.3	"							U
Vinyl bromide	U	0.89	"							U
Trichlorofluoromethane (Freon 11)	U	1.1	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	1.4	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.74	"							U
Acetone	0.18000	1.1	"							B-3, J
Isopropanol	0.060000	0.60	"							B-3, J
Carbon disulfide	U	0.62	"							U
3-Chloropropene	U	1.2	"							U
Methylene Chloride	U	0.66	"							U
Acrylonitrile	U	0.41	"							U
Methyl T-Butyl Ether (MTBE)	U	0.77	"							U
trans-1,2-Dichloroethene	U	0.79	"							U
Hexane	U	0.70	"							U
1,1-Dichloroethane	U	0.78	"							U
Vinyl acetate	U	0.70	"							U
Methyl Ethyl Ketone	U	0.60	"							U
cis-1,2-Dichloroethene	U	0.77	"							U
Ethyl Acetate	U	1.8	"							U
Chloroform	U	0.94	"							U
Tetrahydrofuran	U	1.5	"							U
1,1,1-Trichloroethane	U	1.0	"							U
Cyclohexane	U	0.70	"							U
Carbon Tetrachloride	U	1.2	"							U
1,2-Dichloroethane	U	0.78	"							U
Benzene	U	0.63	"							U
Isooctane	U	0.97	"							U
Heptane	U	0.84	"							U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister**Blank (1112033-BLK1)**

Prepared: 12/06/11 Analyzed: 12/13/11

Trichloroethene (Trichloroethylene)	U	1.0	ug/m3							U
1,2-Dichloropropane	U	0.90	"							U
1,4-Dioxane	U	1.8	"							U
Bromodichloromethane	U	1.3	"							U
cis-1,3-Dichloropropene	U	0.88	"							U
Methyl Isobutyl Ketone	U	0.90	"							U
Toluene	U	0.74	"							U
trans-1,3-Dichloropropene	U	0.93	"							U
1,1,2-Trichloroethane	U	1.1	"							U
Tetrachloroethene (Tetrachloroethylene)	U	1.3	"							U
Methyl Butyl Ketone	U	0.90	"							U
Dibromochloromethane	U	1.7	"							U
1,2-Dibromoethane (EDB)	U	1.5	"							U
Chlorobenzene	U	0.90	"							U
Ethyl Benzene	U	0.85	"							U
(m- and/or p-)Xylene	U	1.7	"							U
o-Xylene	U	0.86	"							U
Styrene	U	0.83	"							U
Bromoform	U	14	"							U
1,1,2,2-Tetrachloroethane	U	1.3	"							U
4-Ethyltoluene	U	2.0	"							U
1,3,5-Trimethylbenzene	U	0.92	"							U
1,2,4-Trimethylbenzene	U	0.95	"							U
1,3-Dichlorobenzene	U	1.2	"							U
1,4-Dichlorobenzene	U	1.2	"							U
Benzyl chloride	U	1.0	"							U
1,2-Dichlorobenzene	U	1.2	"							U
1,2,4-Trichlorobenzene	U	1.4	"							U
Hexachlorobutadiene	U	2.0	"							U
Naphthalene	U	1.1	"							U
Tentatively Identified Compounds	U	10	"							



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister**LCS (1112033-BS1)**

Prepared: 12/06/11 Analyzed: 12/13/11

EPA TO-15

Propene	1.5600		ug/m3	1.8000		86.7	59.6-145			
Dichlorodifluoromethane (Freon 12)	4.0100		"	4.8000		83.5	69.1-133			
1,2-Dichlorotetrafluoroethane (Freon 114)	5.3100		"	6.6000		80.5	66.9-131			
Chloromethane	1.4400		"	2.0000		72.0	63-138			
Vinyl chloride	1.3800		"	2.5000		55.2	62.5-133			QC-1, QL-1
1,3-Butadiene	2.4000		"	4.4000		54.5	61.6-133			QC-1, QL-1
Bromomethane	2.0200		"	3.7000		54.6	55.6-135			QC-1, QL-1
Chloroethane	1.9800		"	2.5000		79.2	59.4-140			
Vinyl bromide	3.8700		"	4.5000		86.0	70.2-124			
Trichlorofluoromethane (Freon 11)	4.6400		"	5.4000		85.9	69.5-131			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	6.1900		"	7.3000		84.8	66-124			
1,1-Dichloroethene (1,1-Dichloroethylene)	3.2400		"	3.7000		87.6	63.4-123			
Acetone	2.2000		"	2.2000		100	66.9-137			
Isopropanol	4.1000		"	2.7000		152	52.3-140			QL-2
Carbon disulfide	2.7400		"	3.1000		88.4	68.8-124			
3-Chloropropene	4.8600		"	5.8000		83.8	61.9-128			
Methylene Chloride	2.7300		"	3.3000		82.7	64.2-128			
Acrylonitrile	1.7000		"	2.0000		85.0	56.7-134			
Methyl T-Butyl Ether (MTBE)	3.4100		"	3.9000		87.4	75.8-127			
trans-1,2-Dichloroethene	3.5300		"	4.0000		88.2	71.7-128			
Hexane	3.2600		"	3.5000		93.1	65.3-129			
1,1-Dichloroethane	3.1700		"	3.9000		81.3	66.7-127			
Vinyl acetate	2.8100		"	3.5000		80.3	64.6-137			
Methyl Ethyl Ketone	2.3900		"	3.0000		79.7	73.8-123			
cis-1,2-Dichloroethene	3.3400		"	3.8000		87.9	68.4-125			
Ethyl Acetate	2.8500		"	3.6000		79.2	67.8-122			
Chloroform	3.7000		"	4.7000		78.7	69.5-127			
Tetrahydrofuran	2.2200		"	3.0000		74.0	61-128			
1,1,1-Trichloroethane	4.1000		"	5.2000		78.8	68.8-128			
Cyclohexane	3.0200		"	3.5000		86.3	65.8-128			
Carbon Tetrachloride	4.7800		"	6.0000		79.7	64.1-132			
1,2-Dichloroethane	3.0000		"	3.9000		76.9	68-127			
Benzene	2.4900		"	3.1000		80.3	65.9-125			
Isooctane	3.9600		"	4.9000		80.8	67.1-129			
Heptane	3.4400		"	4.2000		81.9	61-135			
Trichloroethene (Trichloroethylene)	4.6500		"	5.3000		87.7	66.3-133			
1,2-Dichloropropane	3.3500		"	4.5000		74.4	63.4-130			



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 1112033 - V TO-15 Air Canister**LCS (1112033-BS1)**

Prepared: 12/06/11 Analyzed: 12/13/11

1,4-Dioxane	2.5800		ug/m3	3.5000		73.7	31-137		
Bromodichloromethane	4.9800		"	6.7000		74.3	69.8-129		
cis-1,3-Dichloropropene	3.5600		"	4.4000		80.9	67.4-123		
Methyl Isobutyl Ketone	3.8300		"	4.5000		85.1	54.5-132		
Toluene	3.0900		"	3.7000		83.5	70.5-123		
trans-1,3-Dichloropropene	3.6200		"	4.6000		78.7	66.3-122		
1,1,2-Trichloroethane	4.0300		"	5.3000		76.0	72.7-123		
Tetrachloroethene (Tetrachloroethylene)	5.9800		"	6.6000		90.6	69.7-125		
Methyl Butyl Ketone	3.6300		"	4.5000		80.7	47.8-124		
Dibromochloromethane	6.7500		"	8.6000		78.5	64.5-129		
1,2-Dibromoethane (EDB)	6.1800		"	7.5000		82.4	70.2-123		
Chlorobenzene	3.6900		"	4.5000		82.0	70.9-123		
Ethyl Benzene	3.4000		"	4.3000		79.1	72-124		
(m- and/or p-)Xylene	6.6100		"	8.5000		77.8	74.7-125		
o-Xylene	3.3900		"	4.3000		78.8	74.8-125		
Styrene	3.2100		"	4.1000		78.3	66.9-128		
Bromoform	59.690		"	72.000		82.9	32.1-146		
1,1,2,2-Tetrachloroethane	5.4600		"	6.7000		81.5	67-133		
4-Ethyltoluene	8.6700		"	10.200		85.0	72.4-141		
1,3,5-Trimethylbenzene	3.9700		"	4.6000		86.3	75.2-139		
1,2,4-Trimethylbenzene	4.1700		"	4.8000		86.9	69.3-149		
1,3-Dichlorobenzene	5.2100		"	5.8000		89.8	65.3-136		
1,4-Dichlorobenzene	5.1700		"	5.9000		87.6	63.2-137		
Benzyl chloride	3.8400		"	5.2000		73.8	45.5-132		
1,2-Dichlorobenzene	5.1600		"	5.8000		89.0	68.1-139		
1,2,4-Trichlorobenzene	10.030		"	7.0000		143	26.5-201		
Hexachlorobutadiene	12.360		"	10.200		121	43.2-184		
Naphthalene	7.8500		"	5.4000		145	70-130		QL-2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister**LCS (1112033-BS2)**

Prepared: 12/06/11 Analyzed: 12/08/11

EPA TO-15

Propene	1.7600		ug/m3	1.8000		97.8	59.6-145			
Dichlorodifluoromethane (Freon 12)	4.2900		"	4.8000		89.4	69.1-133			
1,2-Dichlorotetrafluoroethane (Freon 114)	5.6500		"	6.6000		85.6	66.9-131			
Chloromethane	1.5400		"	2.0000		77.0	63-138			
Vinyl chloride	2.1700		"	2.5000		86.8	62.5-133			
1,3-Butadiene	3.7500		"	4.4000		85.2	61.6-133			
Bromomethane	2.4900		"	3.7000		67.3	55.6-135			QC-1
Chloroethane	2.2300		"	2.5000		89.2	59.4-140			
Vinyl bromide	3.5900		"	4.5000		79.8	70.2-124			
Trichlorofluoromethane (Freon 11)	5.0000		"	5.4000		92.6	69.5-131			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	6.1900		"	7.3000		84.8	66-124			
1,1-Dichloroethene (1,1-Dichloroethylene)	3.2300		"	3.7000		87.3	63.4-123			
Acetone	2.4800		"	2.2000		113	66.9-137			
Isopropanol	0.93000		"	2.7000		34.4	52.3-140			QC-1, QL-1
Carbon disulfide	2.6500		"	3.1000		85.5	68.8-124			
3-Chloropropene	4.8400		"	5.8000		83.4	61.9-128			
Methylene Chloride	2.9400		"	3.3000		89.1	64.2-128			
Acrylonitrile	1.7700		"	2.0000		88.5	56.7-134			
Methyl T-Butyl Ether (MTBE)	3.4800		"	3.9000		89.2	75.8-127			
trans-1,2-Dichloroethene	3.5000		"	4.0000		87.5	71.7-128			
Hexane	3.0600		"	3.5000		87.4	65.3-129			
1,1-Dichloroethane	3.3600		"	3.9000		86.2	66.7-127			
Vinyl acetate	3.0400		"	3.5000		86.9	64.6-137			
Methyl Ethyl Ketone	2.5200		"	3.0000		84.0	73.8-123			
cis-1,2-Dichloroethene	3.2100		"	3.8000		84.5	68.4-125			
Ethyl Acetate	3.2100		"	3.6000		89.2	67.8-122			
Chloroform	4.1200		"	4.7000		87.7	69.5-127			
Tetrahydrofuran	2.5900		"	3.0000		86.3	61-128			
1,1,1-Trichloroethane	4.7000		"	5.2000		90.4	68.8-128			
Cyclohexane	3.1900		"	3.5000		91.1	65.8-128			
Carbon Tetrachloride	5.4600		"	6.0000		91.0	64.1-132			
1,2-Dichloroethane	3.6000		"	3.9000		92.3	68-127			
Benzene	2.7700		"	3.1000		89.4	65.9-125			
Isooctane	4.4000		"	4.9000		89.8	67.1-129			
Heptane	3.8600		"	4.2000		91.9	61-135			
Trichloroethene (Trichloroethylene)	4.3700		"	5.3000		82.5	66.3-133			
1,2-Dichloropropane	3.9200		"	4.5000		87.1	63.4-130			
1,4-Dioxane	2.6900		"	3.5000		76.9	31-137			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

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D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister

LCS (1112033-BS2)	Prepared: 12/06/11 Analyzed: 12/08/11					
Bromodichloromethane	5.9700		ug/m3	6.7000	89.1	69.8-129
cis-1,3-Dichloropropene	3.6600		"	4.4000	83.2	67.4-123
Methyl Isobutyl Ketone	4.1500		"	4.5000	92.2	54.5-132
Toluene	3.1800		"	3.7000	85.9	70.5-123
trans-1,3-Dichloropropene	4.0600		"	4.6000	88.3	66.3-122
1,1,2-Trichloroethane	4.4300		"	5.3000	83.6	72.7-123
Tetrachloroethylene (Tetrachloroethylene)	5.7700		"	6.6000	87.4	69.7-125
Methyl Butyl Ketone	2.7400		"	4.5000	60.9	47.8-124
Dibromochloromethane	7.1300		"	8.6000	82.9	64.5-129
1,2-Dibromoethane (EDB)	6.3400		"	7.5000	84.5	70.2-123
Chlorobenzene	3.9200		"	4.5000	87.1	70.9-123
Ethyl Benzene	3.7700		"	4.3000	87.7	72-124
(m- and/or p-)Xylene	7.5700		"	8.5000	89.1	74.7-125
o-Xylene	3.7900		"	4.3000	88.1	74.8-125
Styrene	3.5000		"	4.1000	85.4	66.9-128
Bromoform	61.120		"	72.000	84.9	32.1-146
1,1,2,2-Tetrachloroethane	6.3200		"	6.7000	94.3	67-133
4-Ethyltoluene	9.6900		"	10.200	95.0	72.4-141
1,3,5-Trimethylbenzene	4.4700		"	4.6000	97.2	75.2-139
1,2,4-Trimethylbenzene	4.6300		"	4.8000	96.5	69.3-149
1,3-Dichlorobenzene	5.4300		"	5.8000	93.6	65.3-136
1,4-Dichlorobenzene	5.4000		"	5.9000	91.5	63.2-137
Benzyl chloride	4.6100		"	5.2000	88.7	45.5-132
1,2-Dichlorobenzene	5.8200		"	5.8000	100	68.1-139
1,2,4-Trichlorobenzene	5.1000		"	7.0000	72.9	26.5-201
Hexachlorobutadiene	7.8100		"	10.200	76.6	43.2-184
Naphthalene	3.8700		"	5.4000	71.7	70-130



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister**Duplicate (1112033-DUP1)****Source: E114801-03**

Prepared: 12/06/11 Analyzed: 12/13/11

EPA TO-15

Surrogate: Dibromoformmethane	108		ug/m3	100.00	108	56.7-147				
Surrogate: Toluene-d8	115		"	100.00	115	54.7-147				
Surrogate: p-Bromofluorobenzene	108		"	100.00	108	44.2-160				
Propene	0.63789	2.4	"		U			20		J
Dichlorodifluoromethane (Freon 12)	2.6313	2.6	"	2.6313			0.00	20		
1,2-Dichlorotetrafluoroethane (Freon 114)	U	3.5	"	U				20		U
Chloromethane	1.3555	2.7	"	1.3289			1.98	20		Q-2, J
Vinyl chloride	U	1.3	"	U				20		QC-1, QL-1, U
1,3-Butadiene	U	2.3	"	U				20		QC-1, QL-1, U
Bromomethane	U	2.0	"	U				20		QC-1, QL-1, U
Chloroethane	U	3.5	"	U				20		U
Vinyl bromide	U	2.4	"	U				20		U
Trichlorofluoromethane (Freon 11)	1.4353	2.9	"	1.4353			0.00	20		Q-2, J
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.55816	3.9	"	0.58474			4.65	20		Q-2, J
1,1-Dichloroethene (1,1-Dichloroethylene)	U	2.0	"	U				20		U
Acetone	5.1563	2.9	"	5.3424			3.54	20		
Isopropanol	U	1.6	"	U				20		U
Carbon disulfide	U	1.6	"	U				12		U
3-Chloropropene	U	3.1	"	U				20		U
Methylene Chloride	U	1.8	"	0.15947				20		U
Acrylonitrile	U	1.1	"	U				20		U
Methyl T-Butyl Ether (MTBE)	U	2.0	"	U				20		U
trans-1,2-Dichloroethene	U	2.1	"	U				20		U
Hexane	U	1.9	"	U				20		U
1,1-Dichloroethane	U	2.1	"	U				20		U
Vinyl acetate	U	1.9	"	U				20		U
Methyl Ethyl Ketone	0.66447	1.6	"	0.66447			0.00	20		Q-2, J
cis-1,2-Dichloroethene	U	2.0	"	U				20		U
Ethyl Acetate	U	4.8	"	U				20		U
Chloroform	U	2.5	"	U				20		U
Tetrahydrofuran	U	4.0	"	U				20		U
1,1,1-Trichloroethane	U	2.8	"	U				20		U
Cyclohexane	U	1.9	"	U				20		U
Carbon Tetrachloride	0.42526	3.2	"	0.47842			11.8	20		Q-2, J
1,2-Dichloroethane	U	2.1	"	U				20		U
Benzene	0.18605	1.7	"	0.18605			0.00	20		Q-2, J



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister

Duplicate (1112033-DUP1)	Source: E114801-03			Prepared: 12/06/11 Analyzed: 12/13/11						
Isooctane	U	2.6	ug/m3		U			20		U
Heptane	0.18605	2.2	"		U			20		J
Trichloroethene (Trichloroethylene)	U	2.8	"		U			20		U
1,2-Dichloropropane	U	2.4	"		U			20		U
1,4-Dioxane	U	4.8	"		U			20		U
Bromodichloromethane	U	3.6	"		U			20		U
cis-1,3-Dichloropropene	U	2.3	"		U			20		U
Methyl Isobutyl Ketone	U	2.4	"		U			20		U
Toluene	0.31895	2.0	"	0.31895			0.00	20		Q-2, J
trans-1,3-Dichloropropene	U	2.5	"		U			20		U
1,1,2-Trichloroethane	U	2.8	"		U			20		U
Tetrachloroethene (Tetrachloroethylene)	U	3.5	"		U			18.2		U
Methyl Butyl Ketone	U	2.4	"		U			20		U
Dibromochloromethane	U	4.6	"		U			20		U
1,2-Dibromoethane (EDB)	U	4.0	"		U			20		U
Chlorobenzene	U	2.4	"		U			20		U
Ethyl Benzene	U	2.3	"		U			20		U
(m- and/or p-)Xylene	U	4.5	"		U			20		U
o-Xylene	U	2.3	"		U			20		U
Styrene	U	2.2	"		U			20		U
Bromoform	U	38	"		U			20		U
1,1,2,2-Tetrachloroethane	U	3.6	"		U			20		U
4-Ethyltoluene	U	5.4	"		U			20		U
1,3,5-Trimethylbenzene	U	2.4	"		U			20		U
1,2,4-Trimethylbenzene	0.18605	2.5	"		U			20		U
1,3-Dichlorobenzene	U	3.1	"		U			20		U
1,4-Dichlorobenzene	0.23921	3.2	"		U			20		U
Benzyl chloride	U	2.7	"		U			20		U
1,2-Dichlorobenzene	U	3.1	"		U			20		U
1,2,4-Trichlorobenzene	U	3.7	"		U			20		U
Hexachlorobutadiene	U	5.4	"		U			20		U
Naphthalene	U	2.9	"		U			20		U



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 1112033 - V TO-15 Air Canister**MRL Verification (1112033-PS1)**

Prepared: 12/06/11 Analyzed: 12/13/11

EPA TO-15

Propene	0.43000		ug/m3	0.36000	119	39.6-165			
Dichlorodifluoromethane (Freon 12)	0.83000		"	0.96000	86.5	49.1-153			MRL-5
1,2-Dichlorotetrafluoroethane (Freon 114)	1.0500		"	1.3000	80.8	46.9-151			MRL-5
Chloromethane	0.26000		"	0.40000	65.0	43-158			
Vinyl chloride	0.25000		"	0.49000	51.0	42.5-153			MRL-5
1,3-Butadiene	0.46000		"	0.88000	52.3	41.6-153			MRL-5
Bromomethane	0.42000		"	0.74000	56.8	35.6-155			MRL-5
Chloroethane	0.29000		"	0.51000	56.9	39.4-160			
Vinyl bromide	0.76000		"	0.89000	85.4	50.2-144			MRL-5
Trichlorofluoromethane (Freon 11)	0.95000		"	1.1000	86.4	49.5-151			MRL-5
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1.2600		"	1.5000	84.0	46-144			MRL-5
1,1-Dichloroethene (1,1-Dichloroethylene)	0.67000		"	0.74000	90.5	43.4-143			MRL-5
Acetone	0.46000		"	0.44000	105	46.9-157			
Isopropanol	0.90000		"	0.54000	167	32.3-160			MRL-5, QR-2
Carbon disulfide	0.56000		"	0.62000	90.3	48.8-144			MRL-5
3-Chloropropene	0.98000		"	1.2000	81.7	41.9-148			MRL-5
Methylene Chloride	0.56000		"	0.66000	84.8	44.2-148			MRL-5
Acrylonitrile	0.30000		"	0.41000	73.2	36.7-154			MRL-5
Methyl T-Butyl Ether (MTBE)	0.57000		"	0.77000	74.0	55.8-147			MRL-5
trans-1,2-Dichloroethene	0.71000		"	0.79000	89.9	51.7-148			MRL-5
Hexane	0.63000		"	0.70000	90.0	45.3-149			MRL-5
1,1-Dichloroethane	0.65000		"	0.78000	83.3	46.7-147			MRL-5
Vinyl acetate	0.45000		"	0.70000	64.3	44.6-157			MRL-5
Methyl Ethyl Ketone	0.40000		"	0.60000	66.7	53.8-143			MRL-5
cis-1,2-Dichloroethene	0.64000		"	0.77000	83.1	48.4-145			MRL-5
Ethyl Acetate	0.43000		"	0.73000	58.9	47.8-142			
Chloroform	0.75000		"	0.94000	79.8	49.5-147			MRL-5
Tetrahydrofuran	0.38000		"	0.60000	63.3	41-148			
1,1,1-Trichloroethane	0.84000		"	1.0000	84.0	48.8-148			MRL-5
Cyclohexane	0.56000		"	0.70000	80.0	45.8-148			MRL-5
Carbon Tetrachloride	0.97000		"	1.2000	80.8	44.1-152			MRL-5
1,2-Dichloroethane	0.57000		"	0.78000	73.1	48-147			MRL-5
Benzene	0.48000		"	0.63000	76.2	45.9-145			MRL-5
Isooctane	0.78000		"	0.97000	80.4	47.1-149			MRL-5
Heptane	0.65000		"	0.84000	77.4	41-155			MRL-5
Trichloroethene (Trichloroethylene)	0.94000		"	1.1000	85.5	46.3-153			MRL-5
1,2-Dichloropropane	0.57000		"	0.90000	63.3	43.4-150			MRL-5
1,4-Dioxane	0.41000		"	0.71000	57.7	11-157			



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister**MRL Verification (1112033-PS1)**

Prepared: 12/06/11 Analyzed: 12/13/11

Bromodichloromethane	0.98000		ug/m3	1.3000		75.4	49.8-149			MRL-5
cis-1,3-Dichloropropene	0.63000		"	0.88000		71.6	47.4-143			MRL-5
Methyl Isobutyl Ketone	0.64000		"	0.90000		71.1	34.5-152			MRL-5
Toluene	0.50000		"	0.74000		67.6	50.5-143			MRL-5
trans-1,3-Dichloropropene	0.58000		"	0.93000		62.4	46.3-142			MRL-5
1,1,2-Trichloroethane	0.74000		"	1.1000		67.3	52.7-143			MRL-5
Tetrachloroethylene (Tetrachloroethylene)	1.2000		"	1.3000		92.3	49.7-145			MRL-5
Methyl Butyl Ketone	0.58000		"	0.90000		64.4	27.8-144			MRL-5
Dibromochloromethane	1.1900		"	1.7000		70.0	44.5-149			MRL-5
1,2-Dibromoethane (EDB)	1.0500		"	1.5000		70.0	50.2-143			MRL-5
Chlorobenzene	0.66000		"	0.90000		73.3	50.9-143			MRL-5
Ethyl Benzene	0.50000		"	0.85000		58.8	52-144			MRL-5
(m- and/or p-)Xylene	0.98000		"	1.7000		57.6	54.7-145			MRL-5
o-Xylene	0.48000		"	0.86000		55.8	54.8-145			MRL-5
Styrene	0.42000		"	0.83000		50.6	46.9-148			MRL-5
Bromoform	9.7000		"	14.000		69.3	12.1-166			MRL-5
1,1,2,2-Tetrachloroethane	0.98000		"	1.3000		75.4	47-153			MRL-5
4-Ethyltoluene	1.3100		"	2.0000		65.5	52.4-161			MRL-5
1,3,5-Trimethylbenzene	0.64000		"	0.92000		69.6	55.2-159			MRL-5
1,2,4-Trimethylbenzene	0.62000		"	0.95000		65.3	49.3-169			MRL-5
1,3-Dichlorobenzene	0.91000		"	1.2000		75.8	45.3-156			MRL-5
1,4-Dichlorobenzene	1.0200		"	1.2000		85.0	43.2-157			MRL-5
Benzyl chloride	0.59000		"	1.0000		59.0	25.5-152			MRL-5
1,2-Dichlorobenzene	0.89000		"	1.2000		74.2	48.1-159			MRL-5
1,2,4-Trichlorobenzene	2.5400		"	1.4000		181	10-221			MRL-5
Hexachlorobutadiene	2.9300		"	2.0000		146	23.2-204			
Naphthalene	2.1000		"	1.1000		191	50-150			MRL-5, QR-2



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister**MRL Verification (1112033-PS2)**

Prepared: 12/06/11 Analyzed: 12/08/11

EPA TO-15

Propene	0.52000		ug/m3	0.36000		144	39.6-165			
Dichlorodifluoromethane (Freon 12)	0.98000		"	0.96000		102	49.1-153			MRL-5
1,2-Dichlorotetrafluoroethane (Freon 114)	1.2100		"	1.3000		93.1	46.9-151			MRL-5
Chloromethane	0.42000		"	0.40000		105	43-158			
Vinyl chloride	0.48000		"	0.49000		98.0	42.5-153			MRL-5
1,3-Butadiene	0.84000		"	0.88000		95.5	41.6-153			MRL-5
Bromomethane	0.73000		"	0.74000		98.6	35.6-155			MRL-5
Chloroethane	0.56000		"	0.51000		110	39.4-160			
Vinyl bromide	0.74000		"	0.89000		83.1	50.2-144			MRL-5
Trichlorofluoromethane (Freon 11)	1.0200		"	1.1000		92.7	49.5-151			MRL-5
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1.3000		"	1.5000		86.7	46-144			MRL-5
1,1-Dichloroethene (1,1-Dichloroethylene)	0.67000		"	0.74000		90.5	43.4-143			MRL-5
Acetone	0.45000		"	0.44000		102	46.9-157			
Isopropanol	0.97000		"	0.54000		180	32.3-160			MRL-5, QR-2
Carbon disulfide	0.61000		"	0.62000		98.4	48.8-144			MRL-5
3-Chloropropene	0.97000		"	1.2000		80.8	41.9-148			MRL-5
Methylene Chloride	0.64000		"	0.66000		97.0	44.2-148			MRL-5
Acrylonitrile	0.29000		"	0.41000		70.7	36.7-154			MRL-5
Methyl T-Butyl Ether (MTBE)	0.51000		"	0.77000		66.2	55.8-147			MRL-5
trans-1,2-Dichloroethene	0.70000		"	0.79000		88.6	51.7-148			MRL-5
Hexane	0.59000		"	0.70000		84.3	45.3-149			MRL-5
1,1-Dichloroethane	0.70000		"	0.78000		89.7	46.7-147			MRL-5
Vinyl acetate	0.45000		"	0.70000		64.3	44.6-157			MRL-5
Methyl Ethyl Ketone	0.41000		"	0.60000		68.3	53.8-143			MRL-5
cis-1,2-Dichloroethene	0.59000		"	0.77000		76.6	48.4-145			MRL-5
Ethyl Acetate	0.54000		"	0.73000		74.0	47.8-142			
Chloroform	0.81000		"	0.94000		86.2	49.5-147			MRL-5
Tetrahydrofuran	0.38000		"	0.60000		63.3	41-148			
1,1,1-Trichloroethane	0.94000		"	1.0000		94.0	48.8-148			MRL-5
Cyclohexane	0.59000		"	0.70000		84.3	45.8-148			MRL-5
Carbon Tetrachloride	1.1600		"	1.2000		96.7	44.1-152			MRL-5
1,2-Dichloroethane	0.76000		"	0.78000		97.4	48-147			MRL-5
Benzene	0.53000		"	0.63000		84.1	45.9-145			MRL-5
Isooctane	0.79000		"	0.97000		81.4	47.1-149			MRL-5
Heptane	0.69000		"	0.84000		82.1	41-155			MRL-5
Trichloroethene (Trichloroethylene)	0.90000		"	1.1000		81.8	46.3-153			MRL-5
1,2-Dichloropropane	0.69000		"	0.90000		76.7	43.4-150			MRL-5
1,4-Dioxane	0.41000		"	0.71000		57.7	11-157			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister**MRL Verification (1112033-PS2)**

Prepared: 12/06/11 Analyzed: 12/08/11

Bromodichloromethane	1.1800	ug/m3		1.3000		90.8	49.8-149			MRL-5
cis-1,3-Dichloropropene	0.63000	"		0.88000		71.6	47.4-143			MRL-5
Methyl Isobutyl Ketone	0.61000	"		0.90000		67.8	34.5-152			MRL-5
Toluene	0.48000	"		0.74000		64.9	50.5-143			MRL-5
trans-1,3-Dichloropropene	0.60000	"		0.93000		64.5	46.3-142			MRL-5
1,1,2-Trichloroethane	0.83000	"		1.1000		75.5	52.7-143			MRL-5
Tetrachloroethylene (Tetrachloroethylene)	1.1400	"		1.3000		87.7	49.7-145			MRL-5
Methyl Butyl Ketone	0.55000	"		0.90000		61.1	27.8-144			MRL-5
Dibromo-chloromethane	1.1400	"		1.7000		67.1	44.5-149			MRL-5
1,2-Dibromoethane (EDB)	1.1400	"		1.5000		76.0	50.2-143			MRL-5
Chlorobenzene	0.71000	"		0.90000		78.9	50.9-143			MRL-5
Ethyl Benzene	0.50000	"		0.85000		58.8	52-144			MRL-5
(m- and/or p-)Xylene	1.0000	"		1.7000		58.8	54.7-145			MRL-5
o-Xylene	0.48000	"		0.86000		55.8	54.8-145			MRL-5
Styrene	0.39000	"		0.83000		47.0	46.9-148			MRL-5
Bromoform	10.700	"		14.000		76.4	12.1-166			MRL-5
1,1,2,2-Tetrachloroethane	1.1400	"		1.3000		87.7	47-153			MRL-5
4-Ethyltoluene	1.2500	"		2.0000		62.5	52.4-161			MRL-5
1,3,5-Trimethylbenzene	0.62000	"		0.92000		67.4	55.2-159			MRL-5
1,2,4-Trimethylbenzene	0.54000	"		0.95000		56.8	49.3-169			MRL-5
1,3-Dichlorobenzene	0.94000	"		1.2000		78.3	45.3-156			MRL-5
1,4-Dichlorobenzene	0.99000	"		1.2000		82.5	43.2-157			MRL-5
Benzyl chloride	0.70000	"		1.0000		70.0	25.5-152			MRL-5
1,2-Dichlorobenzene	0.93000	"		1.2000		77.5	48.1-159			MRL-5
1,2,4-Trichlorobenzene	2.3400	"		1.4000		167	10-221			MRL-5
Hexachlorobutadiene	0.98000	"		2.0000		49.0	23.2-204			
Naphthalene	1.9100	"		1.1000		174	50-150			MRL-5, QR-2



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D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Notes and Definitions for QC Samples

- U The analyte was not detected at or above the reporting limit.
- B-3 Level in blank does not impact data quality
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-5 MRL verification for Air matrix
- Q-2 Result greater than MDL but less than MRL.
- QC-1 Analyte concentration low in continuing calibration verification standard
- QL-1 Laboratory Control Spike Recovery less than method control limits
- QL-2 Laboratory Control Spike Recovery greater than method control limits
- QR-1 MRL verification recovery less than lower control limits.
- QR-2 MRL verification recovery greater than upper control limits.

End of Report